

AO 120 (Rev. 08/10)

| | |
|---|---|
| TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 | REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK |
|---|---|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

| | | |
|---|---------------------------------|---|
| DOCKET NO. 6:21-cv-01372 | DATE FILED December 29, 2021 | U.S. DISTRICT COURT Western District of Texas - Waco Division |
| PLAINTIFF Topia Technology, Inc. | | DEFENDANT Box, Inc., Sailpoint Technologies Holdings, Inc., and Vistra Corp. |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 9,143,561 | Sep. 22, 2015 | Topia Technology, Inc. |
| 2 10,067,942 | Sep. 4, 2018 | Topia Technology, Inc. |
| 3 10,289,607 | May 14, 2019 | Topia Technology, Inc. |
| 4 10,642,787 | May 5, 2020 | Topia Technology, Inc. |
| 5 10,754,823 | Aug. 25, 2020 | Topia Technology, Inc. |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| | | |
|-------------------------|---|-------------------------------|
| DATE INCLUDED | INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading | |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

In the above—entitled case, the following decision has been rendered or judgement issued:

| |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

| | | |
|-------|-------------------|------|
| CLERK | (BY) DEPUTY CLERK | DATE |
|-------|-------------------|------|

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

| | |
|---|---|
| TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 | REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK |
|---|---|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

| | | |
|---|---------------------------------|---|
| DOCKET NO. 6:21-cv-01372 | DATE FILED December 29, 2021 | U.S. DISTRICT COURT Western District of Texas - Waco Division |
| PLAINTIFF Topia Technology, Inc. | | DEFENDANT Box, Inc., Sailpoint Technologies Holdings, Inc., and Vistra Corp. |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 11,003,622 | May 11, 2021 | Topia Technology, Inc. |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| | | |
|-------------------------|---|-------------------------------|
| DATE INCLUDED | INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading | |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

In the above—entitled case, the following decision has been rendered or judgement issued:

| |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

| | | |
|-------|-------------------|------|
| CLERK | (BY) DEPUTY CLERK | DATE |
|-------|-------------------|------|

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

| | |
|---|---|
| TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 | REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK |
|---|---|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

| | | |
|---|---------------------------------|---|
| DOCKET NO. 6:21-cv-01373 | DATE FILED December 29, 2021 | U.S. DISTRICT COURT Western District of Texas - Waco Division |
| PLAINTIFF Topia Technology, Inc. | | DEFENDANT Dropbox, Inc., Sailpoint Technologies Holdings, Inc., and Clear Channel Outdoor Holdings, Inc. |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 9,143,561 | Sep. 22, 2015 | Topia Technology, Inc. |
| 2 10,067,942 | Sep. 4, 2018 | Topia Technology, Inc. |
| 3 10,289,607 | May 14, 2019 | Topia Technology, Inc. |
| 4 10,642,787 | Aug. 25, 2020 | Topia Technology, Inc. |
| 5 10,754,823 | Aug. 25, 2020 | Topia Technology, Inc. |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| | | |
|----------------------------|---|-------------------------------|
| DATE INCLUDED | INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading | |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

In the above—entitled case, the following decision has been rendered or judgement issued:

| |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

| | | |
|-------|-------------------|------|
| CLERK | (BY) DEPUTY CLERK | DATE |
|-------|-------------------|------|

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

| | |
|---|---|
| TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 | REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK |
|---|---|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

| | | |
|---|---------------------------------|---|
| DOCKET NO. 6:21-cv-01373 | DATE FILED December 29, 2021 | U.S. DISTRICT COURT Western District of Texas - Waco Division |
| PLAINTIFF Topia Technology, Inc. | | DEFENDANT Dropbox, Inc., Sailpoint Technologies Holdings, Inc., and Clear Channel Outdoor Holdings, Inc. |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 11,003,622 | May 11, 2021 | Topia Technology, Inc. |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| | | |
|-------------------------|---|-------------------------------|
| DATE INCLUDED | INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading | |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

In the above—entitled case, the following decision has been rendered or judgement issued:

| |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

| | | |
|-------|-------------------|------|
| CLERK | (BY) DEPUTY CLERK | DATE |
|-------|-------------------|------|

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

| | |
|---|---|
| TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 | REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK |
|---|---|

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
filed in the U.S. District Court District of Delaware on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

| | | |
|-------------------------------------|--------------------------------|---|
| DOCKET NO. | DATE FILED 12/27/2021 | U.S. DISTRICT COURT District of Delaware |
| PLAINTIFF TOPIA TECHNOLOGY, INC. | | DEFENDANT EGNYTE, INC. |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 9,143,561 | 9/22/2015 | Topia Technology, Inc. |
| 2 10,067,942 | 9/4/2018 | Topia Technology, Inc. |
| 3 10,289,607 | 5/14/2019 | Topia Technology, Inc. |
| 4 10,642,787 | 5/5/2020 | Topia Technology, Inc. |
| 5 10,754,823 | 8/25/2020 | Topia Technology, Inc. |

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

| | | |
|----------------------------|---|-------------------------------|
| DATE INCLUDED | INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading | |
| PATENT OR TRADEMARK NO. | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

In the above—entitled case, the following decision has been rendered or judgement issued:

| |
|--------------------|
| DECISION/JUDGEMENT |
|--------------------|

| | | |
|-------|-------------------|------|
| CLERK | (BY) DEPUTY CLERK | DATE |
|-------|-------------------|------|

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

Box & Dropbox Exhibit 1012

Print

Save As...

Page 5 of 5

ADDENDUM TO AO 120 (ADDITIONAL PATENTS)

| | | | |
|---|------------|-----------------------------------|--|
| Docket No. | | Date Filed 12/27/2021 | U.S. District Court for the District of Delaware |
| PLAINTIFF TOPIA TECHNOLOGY, INC. | | | DEFENDANT EGNYTE, INC. |
| PATENT OR TRADEMARK NO. | | DATE OF PATENT OR TRADEMARK | HOLDER OF PATENT OR TRADEMARK |
| 6 | 11,003,622 | 05/11/2021 | Topia Technology, Inc. |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 030721 |

23373
SUGHRUE MION, PLLC
2000 PENNSYLVANIA AVENUE, N.W.
SUITE 9000
WASHINGTON, DC 20006

CONFIRMATION NO. 7093
POA ACCEPTANCE LETTER



Date Mailed: 01/14/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/11/2022.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/ltaba/

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

I hereby appoint:

Andrew J. Taska, Registration No. 54,666, and
John M. Bird, Registration No. 46,027

as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (Form PTO/AIA/B2A).

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

The address associated with the above-mentioned Customer Number.

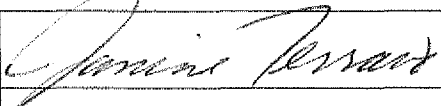
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

TOPIA TECHNOLOGY, INC.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a Petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)(provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

| | | | |
|-----------|---|-----------------|----------|
| Signature |  | Date (Optional) | 12/16/21 |
| Name | Janine Terrano | | |
| Title | CEO of TOPIA TECHNOLOGY, INC. | | |

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

- ☒ Total of 1 forms are submitted.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

CHANGE OF CORRESPONDENCE ADDRESS *Patent*

Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

| | |
|------------------------|--------------------|
| Patent Number | 11,003,622 |
| Issue Date | May 11, 2021 |
| Application Number | 16/361,641 |
| Filing Date | March 22, 2019 |
| First Named Inventor | Michael R. Manzano |
| Attorney Docket Number | A271722 |

Please change the Correspondence Address for the above-identified patent to:



The address associated with Customer Number:

23373

OR

Firm or
Individual Name

Address

City

State

ZIP

Country

Telephone

Email

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:



Patentee.



Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).



Attorney or agent of record. Registration Number 54,666.

Signature

/ Andrew J. Taska /

Typed or
Printed Name

Andrew J. Taska

Date

January 11, 2022

Telephone 202-293-7060

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Post Issue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Box & Dropbox Exhibit 1012

Page 9

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 44717745 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 23373 |
| Filer: | Andrew Joseph Taska/Mildred Cabrera |
| Filer Authorized By: | Andrew Joseph Taska |
| Attorney Docket Number: | 030721 |
| Receipt Date: | 11-JAN-2022 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 14:25:18 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|---|------------------------------|---|------------------|------------------|
| 1 | Assignee showing of ownership per 37 CFR 3.73 | A271722StatementUnder373.pdf | 223508 | no | 3 |
| | | | 0ec2a495354c47d475e0f674e7e48fe319c387c | | |

Warnings:

Box & Dropbox Exhibit 1012

| | | | | | |
|---|-------------------|--|--|----|---|
| Information: | | | | | |
| 2 | Power of Attorney | A271722ExecutedPowerofAttorney.pdf | 147589 | no | 1 |
| | | | 7105c799126c87f7f540ee380a9c980cfd85ad | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 3 | Change of Address | A271722SecondChangeofAddress11003622.pdf | 105890 | no | 2 |
| | | | 43dedfcc90fe9869947858ebb08eacb48024abe0 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 476987 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Topia Technology, Inc.Application No./Patent No.: 11,003,622Filed/Issue Date: May 11, 2021Titled: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORKTopia Technology, Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Michael R. Manzano To: TOPIA TECHNOLOGY, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 048670, Frame 0888, or for which a copy thereof is attached.2. From: John C. Haager To: TOPIA TECHNOLOGY, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 058279, Frame 0956, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Box & Dropbox Exhibit 1012

Page 13

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/ Andrew J. Taska /

Signature

Andrew J. Taska

Printed or Typed Name

01/11/2022

Date

54,666

Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NUMBER | FILING or 371(c) DATE | GRP ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO | TOT CLAIMS | IND CLAIMS |
|-----------------------|--------------------------|-----------------|---------------|-----------------|------------|------------|
| 16/361,641 | 03/22/2019 | 2158 | 785 | 030721 | 20 | 3 |

23373
SUGHRUE MION, PLLC
2000 PENNSYLVANIA AVENUE, N.W.
SUITE 9000
WASHINGTON, DC 20006

CONFIRMATION NO. 7093
CORRECTED FILING RECEIPT



Date Mailed: 12/28/2021

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Michael R. MANZANO, Seattle, WA;

Applicant(s)

TOPIA TECHNOLOGY, INC., Tacoma, WA;

Power of Attorney:

John Bird--46027
Andrew Taska--54666

Domestic Priority data as claimed by applicant

This application is a CON of 16/017,348 06/25/2018 PAT 10289607
which is a CON of 14/860,289 09/21/2015 PAT 10067942
which is a CON of 12/267,852 11/10/2008 PAT 9143561
which claims benefit of 60/986,896 11/09/2007

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 04/05/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/361,641**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

Preliminary Class

707

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

CHANGE OF CORRESPONDENCE ADDRESS *Patent*

Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

| | |
|------------------------|--------------------|
| Patent Number | 11,003,622 |
| Issue Date | May 11, 2021 |
| Application Number | 16/361,641 |
| Filing Date | March 22, 2019 |
| First Named Inventor | Michael R. Manzano |
| Attorney Docket Number | 030721 |

Please change the Correspondence Address for the above-identified patent to:



The address associated with Customer Number:

23373

OR

Firm or
Individual Name**Address**

City

State

ZIP

Country

Telephone

Email

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:



Patentee.



Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).



Attorney or agent of record. Registration Number 54,666.

Signature

/ Andrew J. Taska /

Typed or
Printed Name

Andrew J. Taska

Date

December 22, 2021

Telephone 202-293-7060

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Post Issue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Box & Dropbox Exhibit 1012

Page 20

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 44588697 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Andrew Joseph Taska/Mildred Cabrera |
| Filer Authorized By: | Andrew Joseph Taska |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 22-DEC-2021 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 13:46:31 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------------------------------|--|------------------|------------------|
| 1 | Change of Address | 030721ChangeofAddress11003622.pdf | 112710 21e89ff9ad8dac458daa98f7ac4371940b434ef1 | no | 2 |

Warnings:

Box & Dropbox Exhibit 1012

| | |
|---|--------|
| Information: | |
| Total Files Size (in bytes): | 112710 |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 |

CONFIRMATION NO. 7093

POA ACCEPTANCE LETTER

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102



Date Mailed: 12/21/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/17/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/mmasfaw/



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 |

CONFIRMATION NO. 7093

POWER OF ATTORNEY NOTICE

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102



Date Mailed: 12/21/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/17/2021.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/mmasfaw/

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2158

Appln. No.: 16/361,641

Examiner: CHANNAVAJJALA,
SRIRAMA T.

Confirmation No.: 7093

Patent No.: 11,003,622

Filed: March 22, 2019

Issue Date: May 11, 2021

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**PETITION UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP IN PATENT TO
ADD INVENTOR(S), PURSUANT TO 35 U.S.C. § 256**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The undersigned, on behalf of the Inventors and the Assignee, petitions the Director in accordance with 37 C.F.R. § 1.324(a) to correct inventorship of the above-identified patent by adding the names of John C. Haager as co-inventor.

REMARKS

In accordance with 37 C.F.R. § 1.324(b), submitted herewith are the following:

(1) A statement from each person who is being added as an inventor and each person who is currently named as an inventor either agreeing to the change of inventorship or stating that he or she has no disagreement in regard to the requested change;

(2) A statement from all assignees of the parties submitting a statement under paragraph
(b)(1) of this section agreeing to the change of inventorship in the patent, which statement must
comply with the requirements of § 3.73(c) of this chapter; and

(3) The fee set forth in § 1.20(b).

The processing fee of \$160.00 set forth in 37 C.F.R. § 1.20(b) is being remitted.

The USPTO is directed and authorized to charge the processing fee of \$160.00 and all
required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880.

Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

/Andrew J. Taska/

Andrew J. Taska
Registration No. 54,666

SUGHRUE MION, PLLC
Telephone: 202.293.7060
Facsimile: 202.293.7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: December 17, 2021

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

I hereby appoint:

Andrew J. Taska, Registration No. 54,666, and
John M. Bird, Registration No. 46,027

as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (Form PTO/AIA/B2A).

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

The address associated with the above-mentioned Customer Number.

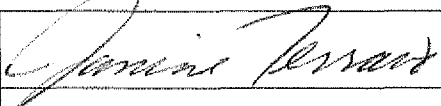
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

TOPIA TECHNOLOGY, INC.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a Petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)(provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

| | | | |
|-----------|---|-----------------|----------|
| Signature |  | Date (Optional) | 12/16/21 |
| Name | Janine Terrano | | |
| Title | CEO of TOPIA TECHNOLOGY, INC. | | |

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

- ☒ Total of 1 forms are submitted.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2158

Appln. No.: 16/361,641

Examiner: CHANNAVAJALA,
SRIRAMA T.

Confirmation No.: 7093

Patent No.: 11,003,622

Filed: March 22, 2019

Issue Date: May 11, 2021

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION UNDER
37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The undersigned, a representative of TOPIA TECHNOLOGY, INC., represents that TOPIA TECHNOLOGY, INC., is the owner of the entire right, title and interest of Application No. 16/361,641, (now United States Patent 11,003,622), filed on March 22, 2019 for ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK by virtue of an Assignment from all of the currently named inventors thereof recorded on March 22, 2019 at Reel 048670 and Frame 0888 and by virtue of an Assignment from the inventor to be added, which is submitted herewith.

The undersigned hereby certifies that the above-mentioned Assignments have been reviewed and to the best of the undersigned's knowledge and belief, title is in who is seeking to take this action.

The undersigned (whose title is supplied below) is empowered to sign this consent statement on behalf of the assignee.

STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION
UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT

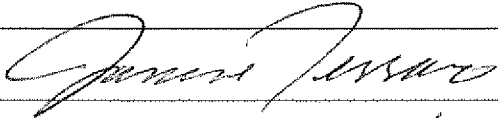
Attorney Docket No.: 030721

Appln.No.: 16/361,641

Patent No.: 11,003,622

Janine Terrano, CEO of TOPIA TECHNOLOGY, INC., on behalf of TOPIA

TECHNOLOGY, INC., hereby agrees to the correction of inventorship in connection with the
above-identified patent whereby the name of John C. Haager is added as a coinventor.

| | | | |
|-----------|---|-------|-----|
| Name | Janine Terrano | Title | CEO |
| Signature |  | | |
| Date | 12/24/21 | | |

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2158

Appln. No.: 16/361,641
SRIRAMA T.

Examiner: CHANNAVAJALA,

Confirmation No.: 7093

Patent No.: 11,003,622

Filed: March 22, 2019

Issue Date: May 11, 2021

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

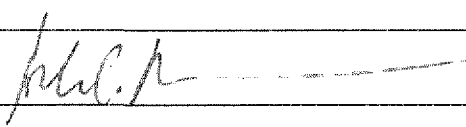
**STATEMENT FROM ADDED INVENTOR IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, John C. Haager, the inventor being added to the above-identified patent, hereby declare that I have no disagreement in regard to the requested change in inventors.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief is believed to be true; and further that these statements were made with the knowledge that willful statements and the like so made are punishable by fine or imprisonment or both under 18 USC §1001, and may jeopardize the validity of the application or any patent issuing thereon.

| | |
|------------------------|--|
| Name of Added Inventor | John C. Haager |
| Signature |  |
| Date | 11/15/2021 |

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2158

Appln. No.: 16/361,641

Examiner: CHANNAVAJJALA, SRIRAMA
T.

Confirmation No.: 7093

Patent No.: 11,003,622

Filed: March 22, 2019

Issue Date: May 11, 2021

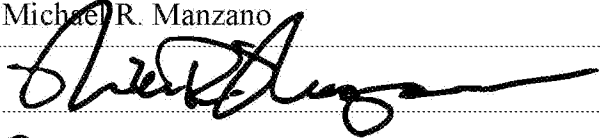
For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**STATEMENT FROM CURRENT NAMED INVENTOR, WHO IS NOT A PERSON
BEING ADDED AS AN INVENTOR, IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Michael R. Manzano, the current named inventor, of the above-identified patent who is not a person being added as an inventor do hereby declare that I have no disagreement in regard to the requested change in inventors.

| | |
|------------------|--|
| Name of Inventor | Michael R. Manzano |
| Signature |  |
| Date | Dec 6 2021 |

Electronic Patent Application Fee Transmittal

| | | | | |
|---|---|-----------------|---------------|-----------------------------|
| Application Number: | 16361641 | | | |
| Filing Date: | 22-Mar-2019 | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Andrew Joseph Taska/Mildred Cabrera | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Large Entity | | | | |
| Filing Fees for Utility under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Post-Allowance-and-Post-Issuance: | | | | |
| PROCESSING FEE CORRECTING INVENTORSHIP | 1816 | 1 | 160 | 160 |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: | | | | |
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 160 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 44552404 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Andrew Joseph Taska/Mildred Cabrera |
| Filer Authorized By: | Andrew Joseph Taska |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 17-DEC-2021 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 17:13:58 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|------------------|
| Submitted with Payment | yes |
| Payment Type | CARD |
| Payment was successfully received in RAM | \$ 160 |
| RAM confirmation Number | E2021BGH14281692 |
| Deposit Account | |
| Authorized User | |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

| | | | | | |
|-----------------|---|--|--|------------------|------------------|
| | | | | | |
| File Listing: | | | | | |
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | Request under Rule 48 correcting inventorship | 030721PetitiontoCorrectInventorshipofPatentunder132411003622.pdf | 85969 | no | 2 |
| | | | 36eaa947ffc4e108a7409eb21bf174b8df475c22 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Power of Attorney | Executed_Power_of_Attorney.pdf | 47433 | no | 1 |
| | | | ed94345a24000a927999e2f85f1337638d51b2fa | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 3 | Request under Rule 48 correcting inventorship | STATEMENT_OF_ASSIGNEE.pdf | 60384 | no | 2 |
| | | | 5f6cecf92e7c60518218ebe27dfa2916811fa4 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 4 | Request under Rule 48 correcting inventorship | STATEMENT_FROM_ADDED_INVENTOR.pdf | 150680 | no | 1 |
| | | | a402770449844d5f56fbc3a58eee78b9964f755c | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 5 | Request under Rule 48 correcting inventorship | STATEMENT_FROM_CURRENT_INVENTOR.pdf | 451534 | no | 1 |
| | | | de60dc8793395bda01befb0fd2b2bfa5c3c8729 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 6 | Fee Worksheet (SB06) | fee-info.pdf | 38516 | no | 2 |
| | | | af4107ab55ebb9c0a33cef71aa5c0a5116ce01e0 | | |
| Warnings: | | | | | |
| Information: | | | | | |

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7054760

| | | |
|---|-----------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | JOHN C. HAAGER | 11/15/2021 |
| RECEIVING PARTY DATA | | |
| Name: | TOPIA TECHNOLOGY, INC. | |
| Street Address: | 1927 DOCK STREET | |
| City: | TACOMA | |
| State/Country: | WASHINGTON | |
| Postal Code: | 98402 | |
| PROPERTY NUMBERS Total: 6 | | |
| Property Type | Number | |
| Patent Number: | 9143561 | |
| Patent Number: | 10067942 | |
| Patent Number: | 10289607 | |
| Patent Number: | 10642787 | |
| Patent Number: | 10754823 | |
| Patent Number: | 11003622 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | (202)293-7860 | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | | |
| Phone: | 2022937060 | |
| Email: | mcabrera@sughrue.com | |
| Correspondent Name: | SUGHRUE MION PLLC | |
| Address Line 1: | 2000 PENNSYLVANIA AVENUE NW | |
| Address Line 2: | SUITE 900 | |
| Address Line 4: | WASHINGTON, D.C. 20006 | |
| ATTORNEY DOCKET NUMBER: | 030221 | |
| NAME OF SUBMITTER: | MILLY CABRERA | |
| SIGNATURE: | /Milly Cabrera/ | |
| DATE SIGNED: | 12/03/2021 | |
| This document serves as an Oath/Declaration (37 CFR 1.63). | | |

Total Attachments: 6

source=9,143,561_Executed Assignment#page1.tif
source=10,067,942_Executed Assignment#page1.tif
source=10,289,607_Executed Assignment#page1.tif
source=10,642,787_Executed Assignment#page1.tif
source=10,754,823_Executed Assignment#page1.tif
source=11,003,622_Executed Assignment#page1.tif

Assignment

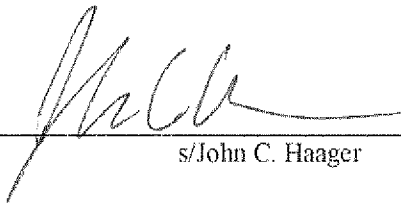
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 12/267,852 (now U.S. Patent 9,143,561)) and Confirmation number 7024, filed November 10, 2008); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

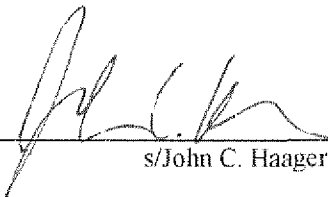
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 14/860,289 (now U.S. Patent 10,067,942)) and Confirmation number 3426, filed September 21, 2015); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

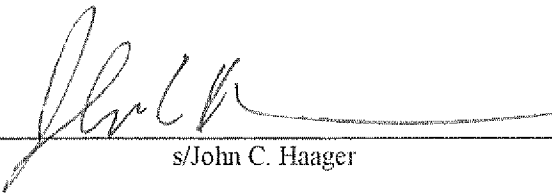
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 16/017,348 (now U.S. Patent 10,289,607)) and Confirmation number 3719, filed June 25, 2018); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021
s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

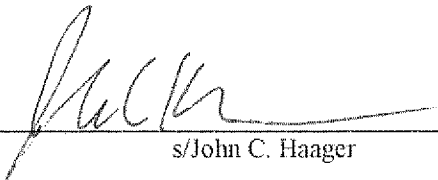
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,399 (now U.S. Patent 10,642,787)) and Confirmation number 9316, filed January 23, 2020); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

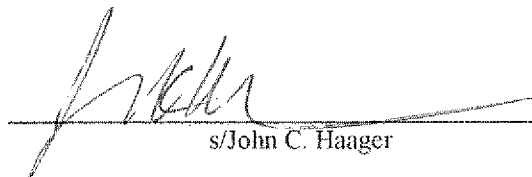
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,435 (now U.S. Patent 10,754,823)) and Confirmation number 2793, filed January 23, 2020); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021
s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

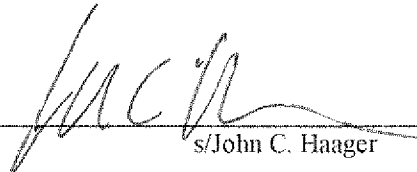
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 16/361,641 (now U.S. Patent 11,003,622)) and Confirmation number 7093, filed March 22, 2019); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:


s/John C. Haager

11/15/2021

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------|------------|---------------------|------------------|
| 16/361,641 | 05/11/2021 | 11003622 | 023027-0504053 | 7093 |

909 7590 04/21/2021
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Michael R. MANZANO, Seattle, WA;
TOPIA TECHNOLOGY, INC., Tacoma, WA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: Michael R. MANZANO
SERIAL No.: **16/361,641**
ATTORNEY DOCKET No.: 023027-0504053
FILING DATE: March 22, 2019
CONFIRMATION NO. 7093
ART UNIT: 2158
EXAMINER: Srirama T. CHANNAVAJALA
FOR: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

COMMENTS ON EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

Mail Stop Issue Fee

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

In reply to the Notice of Allowability dated January 11, 2021, consideration of the following comments is respectfully requested.

Applicant respectfully submits that the subject matter of the allowed claims are patentable for their respective recitations of claimed combinations as a whole, without any particular criticality or distinguishing feature being attributable to any one or more of such features, and without any narrowing interpretation being imposed on any of such features. The Applicant respectfully submits that the dependent claims are allowable not only for their dependence on the allowed independent claims, but also for the additional subject matter recited in each of those dependent claims.

Respectfully submitted,
PILLSBURY WINTHROP SHAW PITTMAN LLP

/Ngai B. Zhang/

Ngai B. Zhang
Reg. No. 65,473
Tel. No. (703) 770-7532
Fax No. (703) 770-7901

Date: April 9, 2021
P.O. Box 10500
McLean, VA 22102
(703) 770-7900

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

909 7590 01/11/2021
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

| |
|-------------------------|
| (Typed or printed name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

TITLE OF INVENTION: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL | \$600 | \$0.00 | \$0.00 | \$600 | 04/12/2021 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|--------------------------|----------|----------------|
| CHANNAVAJJALA, SRIRAMA T | 2158 | 707-654000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Pillsbury Winthrop Shaw Pittman LLP

2

3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

TOPIA TECHNOLOGY, INC.

TACOMA, WASHINGTON

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 033975

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Ngai B. Zhang/

Date April 9, 2021

Typed or printed name Ngai B. Zhang

Registration No. 65,473

Electronic Patent Application Fee Transmittal

| | | | | |
|---|---|-----------------|---------------|-----------------------------|
| Application Number: | 16361641 | | | |
| Filing Date: | 22-Mar-2019 | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Ngai Bing Zhang/Maggie Barham | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Small Entity | | | | |
| Filing Fees for Utility under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Post-Allowance-and-Post-Issuance: | | | | |
| UTILITY APPL ISSUE FEE | 2501 | 1 | 600 | 600 |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: | | | | |
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 600 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 42417497 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Maggie Barham |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 09-APR-2021 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 16:57:03 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|------------------|
| Submitted with Payment | yes |
| Payment Type | DA |
| Payment was successfully received in RAM | \$600 |
| RAM confirmation Number | E202149G57151656 |
| Deposit Account | |
| Authorized User | |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

| File Listing: | | | | | |
|--|---|------------------------------|--|------------------|------------------|
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | Post Allowance Communication - Incoming | 023027-0504053_Comments.pdf | 136722 | no | 1 |
| | | | cc38140f487143ce08a02d60b979b6c9b7bdd1f7 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Issue Fee Payment (PTO-85B) | 023027-0504053_Issue_Fee.pdf | 108596 | no | 1 |
| | | | bfacee62afad32a511edf4c921fdada615c1e30 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 3 | Fee Worksheet (SB06) | fee-info.pdf | 30469 | no | 2 |
| | | | a4d3c986494759d1c2f3d69f0c187bc8a5338d56 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 275787 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

909 7590 01/11/2021
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

| | |
|-------------------------|--------------|
| EXAMINER | |
| CHANNAVAJALA, SRIRAMA T | |
| ART UNIT | PAPER NUMBER |
| 2158 | |

DATE MAILED: 01/11/2021

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

TITLE OF INVENTION: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL | \$600 | \$0.00 | \$0.00 | \$600 | 04/12/2021 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

909 7590 01/11/2021
Pillsbury Winthrop Shaw Pittman, LLP
 PO Box 10500
 McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

| |
|-------------------------|
| (Typed or printed name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

TITLE OF INVENTION: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL | \$600 | \$0.00 | \$0.00 | \$600 | 04/12/2021 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|--------------------------|----------|----------------|
| CHANNAVAJJALA, SRIRAMA T | 2158 | 707-654000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------------|-------------|----------------------|--------------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |
| 909 | 7590 | 01/11/2021 | EXAMINER | |
| Pillsbury Winthrop Shaw Pittman, LLP | | | CHANNAVAJJALA, SRIRAMA T | |
| PO Box 10500 | | | ART UNIT | |
| McLean, VA 22102 | | | PAPER NUMBER | |
| | | | 2158 | |
| DATE MAILED: 01/11/2021 | | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

| | | | |
|-------------------------------|--|--|--------------------------------|
| Notice of Allowability | Application No. 16/361,641 | Applicant(s) MANZANO, Michael R. | |
| | Examiner Srirama T Channavajjala | Art Unit 2158 | AIA (FITF) Status No |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/14/2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

| | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>12/8/20120</u> . 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. | 5. <input type="checkbox"/> Examiner's Amendment/Comment 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____. |
|---|--|

/Srirama Channavajjala/
Primary Examiner, Art Unit 2158

Continuation of 3. The allowed claim(s) is/are: 1-2,4-14,16-18 and 20

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

This application is a CON of 16/017,348 filed on 06/25/2018 US PAT 10289607 16/017,348 is a CON of 14/860,289 filed on 09/21/2015 US PAT 10067942 14/860,289 is a CON of 12/267,852 filed on 11/10/2008 US PAT 9143561 which claims benefit of US provisional 60/986,896 filed on 11/09/2007 TRACK 1 request granted on 4/21/2019.

DETAILED ACTION

1. Claims 1-2,4-14,16-18,20 are allowed in this application.
2. Examiner acknowledges applicant's amendment filed on 12/14/2020.
3. Examiner acknowledges applicant's Terminal disclaimer approved filed on 10/23/2020.

Drawings

4. The Drawings filed on 3/22/2019 are acceptable for examination purpose

Priority

5. Acknowledgment is made of applicant's claim for domestic priority based on an US provisional application 60/986,896 filed 11/9/2007.

Reasons for Allowance

Claims 1-2,4-14,16-18,20 (re-numbered: 1-17) are allowed.

The following is an examiner's statement of reasons:

In view of applicant's amendment, remarks (12/14/2020), the prior art of Mohanty, US Pub. No. 2007/0180084, Sigurdsson, US Pub. No. 2007/0174246 and Yeager et al., US Pub. No. 2004/0088348 do not disclose, make obvious or otherwise suggest the structure of applicant's


"automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device", in claim 1,12,18

These features, together with the other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims 2, 4-11, 13-17,20 being definite, enabled by the specification, and further limiting to the independent claims are also allowable

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gorney Boris, can be reached on (571) 270- 5626. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

/Srirama Channavajjala/
Primary Examiner, Art Unit 2158

| | | |
|---|--|---|
| <i>Search Notes</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |


| CPC - Searched* | | |
|--|------------|----------|
| Symbol | Date | Examiner |
| G06F 16/00;178;182;10;1873;1756;1824;1844;23 | 05/17/2019 | sc |
| G06F 8/71; G06F 11/1435;1448 | 05/17/2019 | sc |
| G06F16/273;275;10;178;128 | 11/02/2020 | sc |
| G06F16/122;16;13-14;10;128;176;178;182;1873 | 12/17/2020 | sc |

| CPC Combination Sets - Searched* | | |
|----------------------------------|------|----------|
| Symbol | Date | Examiner |
| | | |

| US Classification - Searched* | | | |
|-------------------------------|----------|------|----------|
| Class | Subclass | Date | Examiner |
| | | | |

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.


| | |
|--|--|
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2157 | |
|--|--|

| | | |
|---|--|---|
| <i>Search Notes</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |

| Search Notes | | |
|-----------------------------------|-------------|-----------------|
| Search Notes | Date | Examiner |
| Inventor search | 05/15/2019 | sc |
| PLUS search | 05/15/2019 | sc |
| IP.COM search attached | 05/15/2019 | sc |
| google search attached | 05/15/2019 | sc |
| EAST search attached | 08/29/2019 | sc |
| EAST search attached | 11/02/2020 | sc |
| google search attached | 11/02/2020 | sc |
| IP.COM search attached | 11/02/2020 | sc |
| Inventor searched | 12/17/2020 | sc |
| PLUS search | 12/17/2020 | sc |
| google search attached | 12/17/2020 | sc |
| IP.COM search attached | 12/17/2020 | sc |
| EAST updated search attached | 12/17/2020 | sc |
| EAST Interference search attached | 12/17/2020 | sc |


| Interference Search | | | |
|----------------------------|---|-------------|-----------------|
| US Class/CPC Symbol | US Subclass/CPC Group | Date | Examiner |
| | G06F16/122;16;13-14;10;128;176;178;182;1873 | 12/17/2020 | sc |

| | |
|--|--|
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2157 | |
|--|--|

| | | |
|--|--|---|
| <i>Index of Claims</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |

| | | | | | | | |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | Rejected | - | Cancelled | N | Non-Elected | A | Appeal |
| = | Allowed | ÷ | Restricted | I | Interference | O | Objected |


| CLAIMS | | | | | | | | | | |
|--|----------|------------|------------|------------|------------|--|--|--|--|--|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input checked="" type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 | | | | | | | | | | |
| CLAIM | | DATE | | | | | | | | |
| Final | Original | 05/15/2019 | 08/29/2019 | 11/02/2020 | 12/17/2020 | | | | | |
| 1 | 1 | ✓ | ✓ | ✓ | = | | | | | |
| 2 | 2 | ✓ | ✓ | ✓ | = | | | | | |
| | 3 | ✓ | ✓ | ✓ | - | | | | | |
| 3 | 4 | ✓ | ✓ | ✓ | = | | | | | |
| 4 | 5 | ✓ | ✓ | ✓ | = | | | | | |
| 5 | 6 | ✓ | ✓ | ✓ | = | | | | | |
| 6 | 7 | ✓ | ✓ | ✓ | = | | | | | |
| 7 | 8 | ✓ | ✓ | ✓ | = | | | | | |
| 8 | 9 | ✓ | ✓ | ✓ | = | | | | | |
| 9 | 10 | ✓ | ✓ | ✓ | = | | | | | |
| 10 | 11 | ✓ | ✓ | ✓ | = | | | | | |
| 11 | 12 | ✓ | ✓ | ✓ | = | | | | | |
| 12 | 13 | ✓ | ✓ | ✓ | = | | | | | |
| 13 | 14 | ✓ | ✓ | ✓ | = | | | | | |
| | 15 | ✓ | ✓ | ✓ | - | | | | | |
| 14 | 16 | ✓ | ✓ | ✓ | = | | | | | |
| 15 | 17 | ✓ | ✓ | ✓ | = | | | | | |
| 16 | 18 | ✓ | ✓ | ✓ | = | | | | | |
| | 19 | ✓ | ✓ | ✓ | - | | | | | |
| 17 | 20 | ✓ | ✓ | ✓ | = | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | | |
|--|--|---|
| Issue Classification  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |

| CPC | | | | | | |
|--------|---|----|---|------|------|------------|
| Symbol | | | | | Type | Version |
| G06F | / | 16 | / | 122 | F | 2019-01-01 |
| G06F | / | 15 | / | 16 | I | 2013-01-01 |
| G06F | / | 16 | / | 00 | I | 2019-01-01 |
| G06F | / | 16 | / | 13 | I | 2019-01-01 |
| G06F | / | 16 | / | 14 | I | 2019-01-01 |
| G06F | / | 16 | / | 128 | I | 2019-01-01 |
| G06F | / | 16 | / | 176 | I | 2019-01-01 |
| G06F | / | 16 | / | 178 | I | 2019-01-01 |
| G06F | / | 16 | / | 1873 | I | 2019-01-01 |
| G06F | / | 16 | / | 182 | I | 2019-01-01 |
| G06F | / | 16 | / | 10 | I | 2019-01-01 |
| H04L | / | 67 | / | 1095 | I | 2013-01-01 |

| CPC Combination Sets | | | | | |
|----------------------|--|--|--|------|-----|
| Symbol | | | | Type | Set |
| | | | | | |

| | | | |
|--|--|------------------------------------|------------------------|
| NONE (Assistant Examiner) _____ (Date) _____ | | Total Claims Allowed: 17 | |
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2158 (Primary Examiner) _____ (Date) 17 December 2020 | | O.G. Print Claim(s) 1 | O.G. Print Figure 3 |


| | | |
|---|--|---|
| <i>Issue Classification</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |

| | | | |
|-------------------------------------|---|----|------|
| INTERNATIONAL CLASSIFICATION | | | |
| CLAIMED | | | |
| G06F | / | 16 | / 00 |
| NON-CLAIMED | | | |
| | / | | / |

| | |
|-----------------------------------|-----------------|
| US ORIGINAL CLASSIFICATION | |
| CLASS | SUBCLASS |
| | |

| | | | | | | |
|----------------------------|--|--|--|--|--|--|
| CROSS REFERENCES(S) | | | | | | |
| CLASS | SUBCLASS (ONE SUBCLASS PER BLOCK) | | | | | |
| | | | | | | |

| | | | |
|--|------------------|------------------------------|-------------------|
| NONE | | Total Claims Allowed: | |
| (Assistant Examiner) | (Date) | 17 | |
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2158 | 17 December 2020 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 3 |

| | | |
|--|--|---|
| Issue Classification  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |

| | | | | | | | | | | | | | | | |
|--|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input checked="" type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 | | | | | | | | | | | | | | | |
| CLAIMS | | | | | | | | | | | | | | | |
| Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
| 1 | 1 | 10 | 11 | | | | | | | | | | | | |
| 2 | 2 | 11 | 12 | | | | | | | | | | | | |
| 3 | 4 | 12 | 13 | | | | | | | | | | | | |
| 4 | 5 | 13 | 14 | | | | | | | | | | | | |
| 5 | 6 | 14 | 16 | | | | | | | | | | | | |
| 6 | 7 | 15 | 17 | | | | | | | | | | | | |
| 7 | 8 | 16 | 18 | | | | | | | | | | | | |
| 8 | 9 | 17 | 20 | | | | | | | | | | | | |
| 9 | 10 | | | | | | | | | | | | | | |

| | | | |
|--|--|------------------------------------|------------------------|
| NONE (Assistant Examiner) _____ (Date) _____ | | Total Claims Allowed: 17 | |
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2158 (Primary Examiner) _____ (Date) 17 December 2020 | | O.G. Print Claim(s) 1 | O.G. Print Figure 3 |

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L3 | 2 | L1 and L2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L6 | 21 | L4 and (assign\$3 near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L8 | 2 | (priorit\$3 and file\$1 and synch\$5).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L9 | 13 | (file\$1 and version\$1 and synchroniz\$5).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L10 | 25 | (version\$1 and priorit\$3 and file\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L11 | 1 | L10 and synchroniz\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L12 | 7 | (receiv\$3 near5 copy near5 file\$1) and (second near5 device) and (automatic near5 transfer\$4) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L13 | 7 | (receiv\$3 near5 copy near5 file\$1) and (second near5 device) and (automatic near5 transfer\$4) and version\$1 and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L15 | 4 | L14 and (second near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L16 | 4 | L15 and (priorit\$2 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L18 | 1 | (synchroniz\$3 and priorit\$3 and file\$1).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L19 | 22 | (synchroniz\$3 and priorit\$3 and file\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L21 | 2 | L19 and (file\$1 near5 transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L22 | 21 | (synchroniz\$3 near5 file\$1) and (file\$1 near5 version\$1) and (copy adj5 file\$1) and (automatic near5 transfer\$3) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L24 | 19 | L22 and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L25 | 2 | L22 and priorit\$3 and (higher near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L29 | 9 | (version and management and file\$1 and transfer\$3).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L30 | 2 | (version and management and file\$1 and synchroniz\$3).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L31 | 34 | (file\$1 and transfer\$3 ad device\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L35 | 10 | L1 and (automat\$3 near5 file\$1 near5 transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L36 | 1 | L1 and (automat\$3 near5 file\$1 near5 transfer\$3) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L37 | 32 | L4 AND ((G06F16/10 OR H04L67/1095 OR H04L67/06 OR G06F16/128 OR G06F16/178).CPC.) and priority | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L38 | 9 | L4 AND ((G06F16/10 OR H04L67/1095 OR H04L67/06 OR G06F16/128 OR G06F16/178).CPC.) and priority and (higher near5 priority) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L39 | 3 | L4 AND ((G06F16/10 OR H04L67/1095 OR H04L67/06 OR G06F16/128 OR G06F16/178).CPC.) and priority and (higher near5 priority) and metadata | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L40 | 8 | L26 and (synchroniz\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L43 | 9 | L26 and (synchron\$4 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L44 | 1 | L26 and (synchron\$4 near5 file\$1) and (file\$1 near5 priori\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L45 | 2 | L26 and (priorit\$2 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L49 | 20 | (synch\$6 and priorit\$2 and file\$1).ab. and @Py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L55 | 13 | L54 and (automat\$3 near5 transfer\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L56 | 3 | L54 and (automat\$3 near5 transfer\$3 near5 file\$1) and (file\$1 near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:35 |
| L57 | 2 | 27 and (automatic\$2 near5 transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:52 |
| L60 | 11 | (assign\$3 near5 priorit\$2) and (metadata near5 transfer\$3) and (file\$1 near5 copy) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 08:54 |
| L63 | 3 | 60 AND ((G06F16/9574 OR G06F9/52 OR G06F16/1774 OR G06F16/192 OR G06F9/546 OR H04L67/02 OR H04L67/06 OR H04L67/1095 OR H04L67/2814 OR H04L67/2823 OR H04L67/2828 OR H04L67/2842 OR H04L67/2876 OR H04L67/40 OR H04L69/329 OR H04L67/1002 OR H04L67/1008 OR H04L67/1012 OR H04L67/1017 OR H04L67/1019 OR H04L67/1029 OR H04L67/1031 OR H04L67/1034 OR H04L69/40 OR G06F16/10 OR G06F16/1767 OR G06F16/1787 OR G06F16/182).CPC.) and replac\$3 and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:05 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L64 | 14 | 10 AND ((G06F8/65 OR G06F11/1441 OR G06F9/5077 OR G06F8/61 OR G06F11/3624 OR G06F9/4406 OR G06F9/455 OR G06F9/4411 OR G06F9/4418 OR G06F9/44505).CPC.) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:07 |
| L65 | 5 | 10 AND ((G06F8/65 OR G06F11/1441 OR G06F9/5077 OR G06F8/61 OR G06F11/3624 OR G06F9/4406 OR G06F9/455 OR G06F9/4411 OR G06F9/4418 OR G06F9/44505).CPC.) and version\$1 and replac\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:08 |
| L68 | 27 | 14 AND ((H04L69/329 OR G06F16/951 OR G06F16/13 OR G06F16/25 OR H04L29/06 OR H04L29/08045 OR H04L29/12009 OR H04L29/12018 OR H04L61/10 OR G06F16/10 OR G06F16/21 OR G06F16/2343 OR G06F16/252 OR G06F16/27 OR G06F16/273 OR G06F16/958 OR G06F16/24534 OR G06F16/258 OR G06F16/93 OR G06F16/9535 OR G06F16/954 OR G06F16/957 OR G06F16/9574 OR G06F2221/2141).CPC.) and (receiv\$3 near5 copy) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:10 |
| L69 | 2 | 14 AND ((H04L69/329 OR G06F16/951 OR G06F16/13 OR G06F16/25 OR H04L29/06 OR H04L29/08045 OR H04L29/12009 OR H04L29/12018 OR H04L61/10 OR G06F16/10 OR G06F16/21 OR G06F16/2343 OR G06F16/252 OR G06F16/27 OR G06F16/273 OR G06F16/958 OR G06F16/24534 OR G06F16/258 OR G06F16/93 OR G06F16/9535 OR G06F16/954 OR G06F16/957 OR G06F16/9574 OR G06F2221/2141).CPC.) and (receiv\$3 near5 copy) and (client near5 device\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:11 |
| L70 | 6 | ((file\$1 near5 priorit\$3) same (automatic\$3 near5 transfer\$3)) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:12 |
| L71 | 2 | 70 AND ((H04L29/06 OR H04L67/06 OR H04L69/18 OR H04L69/24 OR H04L69/329 OR G06F12/08 OR G06F12/0866 OR G06F15/78 OR G06F30/30).CPC.) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:14 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L72 | 4 | 70 AND ((H04L29/06 OR H04L67/06 OR H04L69/18 OR H04L69/24 OR H04L69/329 OR G06F12/08 OR G06F12/0866 OR G06F15/78 OR G06F30/30).CPC.) and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:14 |
| L79 | 3 | 54 and (compar\$3 near5 priorit\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:17 |
| L80 | 17 | ((metadata near5 version\$1) same (modify\$3 near5 file\$1)) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:48 |
| L81 | 1 | 80 AND ((G06F8/71 OR G06F16/10 OR G06F11/1451 OR G06F11/1461 OR G06F11/1464 OR G06F16/184 OR G06F16/213 OR G06F16/29 OR G06F21/121 OR G06F2221/0797 OR G06F2221/2113 OR G06F8/61 OR G06F8/65).CPC.) and (file\$2 same priorit\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:50 |
| L82 | 38 | ("7051364" "20070180084" "20070180084" "20030115547" "20070174246" "7263493" "20040088348" "20070239725" "6088693" "20020194382" "20050210371" "6826626" "7058667" "7149760" "7162501" "20050188051").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:50 |
| L83 | 15 | 82 AND ((G06F16/9574 OR G06F16/93 OR G06F16/10 OR G06F16/1787 OR G06Q20/20 OR G06F11/1451 OR G06F11/1464 OR G06F16/21 OR G06F16/2343 OR G06F16/252 OR G06F40/106 OR G06F40/174 OR G06F40/177 OR G06F40/197 OR G06F9/44526 OR G06F9/54 OR G06K9/00463 OR G06Q50/188 OR H04L63/0823 OR H04L63/104 OR H04L67/104 OR H04L67/1042 OR H04L67/1046 OR H04L67/1048 OR H04L67/1068 OR H04L67/1095 OR H04L67/34 OR H04L9/3247).CPC.) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:52 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|-----|----|------------------|
| L84 | 7 | 82 AND ((G06F16/9574 OR G06F16/93 OR G06F16/10 OR G06F16/1787 OR G06Q20/20 OR G06F11/1451 OR G06F11/1464 OR G06F16/21 OR G06F16/2343 OR G06F16/252 OR G06F40/106 OR G06F40/174 OR G06F40/177 OR G06F40/197 OR G06F9/44526 OR G06F9/54 OR G06K9/00463 OR G06Q50/188 OR H04L63/0823 OR H04L63/104 OR H04L67/104 OR H04L67/1042 OR H04L67/1046 OR H04L67/1048 OR H04L67/1068 OR H04L67/1095 OR H04L67/34 OR H04L9/3247).CPC.) and version\$1 and metadata | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:52 |
| L85 | 4 | 82 AND ((G06F16/9574 OR G06F16/93 OR G06F16/10 OR G06F16/1787 OR G06Q20/20 OR G06F11/1451 OR G06F11/1464 OR G06F16/21 OR G06F16/2343 OR G06F16/252 OR G06F40/106 OR G06F40/174 OR G06F40/177 OR G06F40/197 OR G06F9/44526 OR G06F9/54 OR G06K9/00463 OR G06Q50/188 OR H04L63/0823 OR H04L63/104 OR H04L67/104 OR H04L67/1042 OR H04L67/1046 OR H04L67/1048 OR H04L67/1068 OR H04L67/1095 OR H04L67/34 OR H04L9/3247).CPC.) and version\$1 and metadata and priorit\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:52 |
| L86 | 3 | 82 AND ((G06F16/9574 OR G06F16/93 OR G06F16/10 OR G06F16/1787 OR G06Q20/20 OR G06F11/1451 OR G06F11/1464 OR G06F16/21 OR G06F16/2343 OR G06F16/252 OR G06F40/106 OR G06F40/174 OR G06F40/177 OR G06F40/197 OR G06F9/44526 OR G06F9/54 OR G06K9/00463 OR G06Q50/188 OR H04L63/0823 OR H04L63/104 OR H04L67/104 OR H04L67/1042 OR H04L67/1046 OR H04L67/1048 OR H04L67/1068 OR H04L67/1095 OR H04L67/34 OR H04L9/3247).CPC.) and version\$1 and metadata and priorit\$2 and modify\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 09:52 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|-----|----|------------------|
| L87 | 2 | 82 AND ((G06F16/9574 OR G06F16/93 OR G06F16/10 OR G06F16/1787 OR G06Q20/20 OR G06F11/1451 OR G06F11/1464 OR G06F16/21 OR G06F16/2343 OR G06F16/252 OR G06F40/106 OR G06F40/174 OR G06F40/177 OR G06F40/197 OR G06F9/44526 OR G06F9/54 OR G06K9/00463 OR G06Q50/188 OR H04L63/0823 OR H04L63/104 OR H04L67/104 OR H04L67/1042 OR H04L67/1046 OR H04L67/1048 OR H04L67/1068 OR H04L67/1095 OR H04L67/34 OR H04L9/3247).CPC.) and version\$1 and metadata and priorit\$2 and modify\$3 and transfer\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/12/18 10:04 |
|-----|---|---|--|-----|----|------------------|

Bibliographic Data

Application No: 16/361,641

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /Srirama Channavajjala/

Examiner's Signature

Initials

Title:

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES
ACROSS DISTRIBUTED NETWORK

| FILING or 371(c) DATE | CLASS | GROUP ART UNIT | ATTORNEY DOCKET NO. |
|-----------------------|-------|----------------|---------------------|
| 03/22/2019 | 707 | 2158 | 023027-0504053 |
| RULE | | | |

APPLICANTS

TOPIA TECHNOLOGY, INC., Tacoma, WA,

INVENTORS

Michael R. MANZANO, Seattle, WA, UNITED STATES

CONTINUING DATA

This application is a CON of 16017348 06/25/2018 PAT 10289607

16017348 is a CON of 14860289 09/21/2015 PAT 10067942

14860289 is a CON of 12267852 11/10/2008 PAT 9143561

12267852 has PRO of 60986896 11/09/2007

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

04/05/2019

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

Pillsbury Winthrop Shaw Pittman, LLP

PO Box 10500

McLean, VA 22102

UNITED STATES

FILING FEE RECEIVED

\$0



SEARCH TERMS

X

About 183,828 results

Download
 With Concepts
 Side-by-side

Sort by: Relevance • Group by: None • Deduplicate by: Family • Results / page: 10 •

metadata automatic transfer X or

+ Synonyms

+ Synonyms

SEARCH FIELDS

Date • Priority •

YYYY-MM-DD ~ YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office • Language •

Status • Type •

Litigation •

System and method for managing a session via an intermediate device

 WO EP US CN JP KR • [JP2004025582](#) • アサヒン シンバル, • サイトラックス システムズ, インコーポレイテッド
 Priority 2003-10-03 • Filed 2015-10-10 • Granted 2010-02-14 • Published 2020-02-14

A method of maintaining a session via an intermediary means. By the first device that mediates client and a plurality of servers, is used to maintain the state of the application that is accessed via the runs and the session on at least one server of the plurality of servers receiving a packet ...

Method and apparatus for establishing a social network via file transfer

 WO EP US CN JP KR • [JP201405082](#) • ジョン・アール・ロバート・グアルサム, インコーポレイテッド
 Priority 2009-04-02 • Filed 2009-05-12 • Granted 2013-06-19 • Published 2013-06-19

Some aspects may also allow the user to specify as appropriate which files should be automatically shared. Another exemplary XML element 192 is "automatic transfer" type metadata that indicates that a file can be transferred without further user action. For this example metadata element, possible ...

System for managing content data, metadata related to the content data, and ...

 WO EP US CN JP AU B:SG • [JP200304682](#) • エドガー・ダウン・インターナショナル・ビジネス・マシネン
 ズ・コーポレーション International Business Machines Corpora
 tion

Priority 1995-08-13 • Filed 2004-09-10 • Granted 2010-10-20 • Published 2010-10-20

A system for tracking usage of digital content on user devices. Electronic stores coupled to a network sell licenses to play digital content data to users. Content players, which receive from the network the licensed content data, are used to play the licensed content data. Additionally, a logging ...

Automatic rules-based device synchronization

 US • [US7547346B2](#) • Andrew L. Silverman • Microsoft Corporation

Priority 2005-03-29 • Filed 2005-03-29 • Granted 2010-01-12 • Published 2010-01-12

Automatic rules-based synchronization of digital files on a source device and a target device coupled to it. A source computer executes a synchronization engine for managing transfer of files from a source database to a target device coupled to the computer as a function of a defined storage ...

Method and apparatus for browsing using multiple coordinated device sets

 WO US AU • [US7599918B2](#) • Richard Reisman • Richard Reisman

Priority 2003-03-10 • Filed 2003-03-03 • Granted 2011-03-01 • Published 2011-03-01

Systems and methods for navigating hypermedia using multiple coordinated input/output device sets. Disclosed systems and methods allow a user and/or an author to control what resources are presented on which device sets (whether they are integrated or not), and provide for coordinating browsing ...

Object-based on-line transaction infrastructure

 US • [US6737210B2](#) • Drummond Shattuck Reed • Gnsname Corporation

Priority 1995-06-29 • Filed 2000-02-03 • Granted 2004-06-29 • Published 2004-06-29

An automated communications system operates to transfer data, metadata and methods from a provider computer to a consumer computer through a communications network. The transferred information controls the communications relationship, including responses by the consumer computer, updating of ...

Audio and video program recording, editing and playback systems using metadata

 US • [US6288168B2](#) • James G. Logan • Digitalanths, Inc.

Priority 1999-03-23 • Filed 2007-09-20 • Granted 2012-07-24 • Published 2012-07-24

A system for utilizing metadata created either at a central location for shared use by connected users, or at each individual user's location, to enhance user's enjoyment of available broadcast programming content. A variety of mechanisms are employed for automatically and manually identifying and ...

Data object store and server for a cloud storage environment, including data ...

 WO EP US AU CA DK • [US20120175805A1](#) • Anand Prithvi • Commonwealth Systems, Inc.

Priority 2009-06-30 • Filed 2013-02-14 • Published 2013-06-13

Data storage operations, including content-indexing, containerized deduplication, and policy-driven storage, are performed within a cloud environment. The systems support a variety of clients and cloud storage sites that may connect to the system in a cloud environment that requires data transfer ...

Enhanced syndication

 US • [US8208778B2](#) • James F. Moore • Newslike Media Group, Inc.

Priority 2000-07-25 • Filed 2002-02-20 • Granted 2012-02-20



US 2017/0176289 A1

A variety of tools and techniques are disclosed for managing, viewing, publishing, searching, clustering, and otherwise manipulating data streams. Data streams such as RSS data feeds may be searched, aggregated, and filtered into a processed feed. The processed feed, along with rules used to ...

System And Method For Efficient Replication Of And Access To Application ...



WO 2017/0176289 A1 • Inan Chaudhri • Inan Chaudhri

Priority 2015-12-01 • Filed 2017-08-23 • Published 2017-10-06

A peer-to-peer system and method for efficient replication of and access to application specific environments and their data that includes automatically accessing application specific metadata to determine the location of application specific data and then replicating or providing access to the ...



SEARCH TERMS

✕

priority files versions ✕ or + Synonym

+ Synonym

SEARCH FIELDS

Date - Priority ▾

YYYY-MM-DD ▾ YYYY-MM-DD

Inventor

Assignee

Patent Office ▾ Language ▾

Status ▾ Type ▾

Litigation ▾

About 135,826 results

Download
 with Concepts
 Side-by-side

Sort by: Relevance ▾ Group by: None ▾ Deduplicate by: Family ▾ Results / page: 10 ▾

Converged search and archival systemWO EP US • [US20160123872A1](#) • Arvind Jain • Rubrik, Inc.

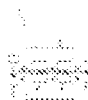
Priority 2014-11-04 • Filed 2015-09-20 • Published 2016-05-05

Methods and systems for managing, storing, and serving data within a virtualized environment are described. In some embodiments, a data management system may manage the extraction and storage of virtual machine snapshots, provide near instantaneous restoration of a virtual machine or one or more ...

Determining the preferred modified version from multiple modified versions for ...WO EP US CN JP AU • [JP2007765582](#) • コノベート テックフ、・ドロップボックス、・インコーポレイテッド

Priority 2012-06-27 • Filed 2013-06-21 • Granted 2016-12-21 • Published 2016-12-21

A computer-implemented method in a synchronous file system for determining a preferred modified version from a plurality of modified versions of a file, comprising: Receiving an instruction from a first client to share a file generated by a user stored in the file system with a second client, ...

Virtual file-sharing networkWO EP US AU • [US2014772682](#) • Elai Lev Ran • Cisco Technology, Inc.

Priority 2001-08-01 • Filed 2010-09-16 • Granted 2017-01-17 • Published 2017-01-17

CROSS-REFERENCE TO RELATED APPLICATIONS This is a divisional of application Ser. No. 11/408,260 filed on Apr. 20, 2006, which is a divisional of application Ser. No. 10/485,178 filed Jul. 28, 2004 (now U.S. Pat. No. 7,139,811) which is a 371 of International Application IL2002/000627 filed on Jul

Digital information infrastructure and method for security designated data and ...US • [US20072416982](#) • Ron M. Redlich • Digital Doors, Inc.

Priority 2007-01-05 • Filed 2013-05-29 • Granted 2017-08-15 • Published 2017-08-15

Distributed computer system processes data having select content (SC) represented by one or more predetermined words, characters, etc. The system has a plurality of SC data stores in a server cloud for respective security designated (Ser-D) data and granular data, each with respective access ...

Systems and methods for a snapshot of dataUS • [US2015119682](#) • Robert J. Anderson • Eric Corporation

Priority 2006-03-15 • Filed 2010-03-04 • Granted 2011-09-06 • Published 2011-09-06

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Managed peer-to-peer applications, systems and methods for distributed data ...US • [US20140064971](#) • Lambertus Hesselink • Western Digital Technologies, Inc.

Priority 1999-12-02 • Filed 2014-01-22 • Granted 2016-05-24 • Published 2016-05-24

Secure and remote operation of a remote computer from a local computer over a network includes authenticating at least one remote computer for connection to at least one computer over the network and/or at least one local computer for connection to at least one remote computer over the network,

Remote Embedded Device Update Platform Apparatuses, Methods and SystemsUS • [US20150196131A1](#) • Mark Douglas Gearle • Symphony Teleco Corporation

Priority 2014-07-07 • Filed 2016-01-05 • Published 2016-07-07

The Remote Embedded Device Update Platform Apparatuses, Methods and Systems ("REDUP") transforms telemetry inputs via REDUP components into remote embedded updates outputs. The REDUP may include a memory and processor with instructions to: obtain a remote embedded device connection request message ...

Remote Embedded Device Update Platform Apparatuses, Methods and SystemsUS • [US20150294655A1](#) • Mark Douglas Gearle • Symphony Teleco Corporation

Priority 2014-07-07 • Filed 2016-01-05 • Published 2016-10-06

The Remote Embedded Device Update Platform Apparatuses, Methods and Systems ("REDUP") transforms telemetry inputs via REDUP components into remote embedded updates outputs. The REDUP may include a memory and processor with instructions to: obtain a remote embedded device connection request message ...

Device component status detection and illustration apparatuses, methods, and ...US • [US2009199782](#) • Mark Douglas Gearle • Herman Connected Services, Inc.

Priority 2013-07-07 • Filed 2014-07-06 • Granted 2016-02-12 • Published 2016-02-12



Device component status detection and illustration apparatuses, methods, and systems determine and generate visualizations of updates timelines indicating device components associated with a remote connected device at different times. A device component status detection and illustration apparatus ...

Remote Embedded Device Update Platform Apparatuses, Methods and Systems



WI • US2016018241 • Mark Douglas Gorda • Symphony Teleca Corporation
Priority 2014-07-07 • Filed 2016-01-06 • Published 2016-07-07

The Remote Embedded Device Update Platform Apparatuses, Methods and Systems ("REDUP") transforms telemetry inputs via REDUP components into remote embedded updates outputs. This REDUP may include a memory and processor with instructions to: obtain a remote embedded device connection request message ...

SEARCH TERMS

x

About 166,828 results

Download with Concepts Slide-by-slide

Sort by · Relevance · Group by · None · Deduplicate by · Family · Results / page · 10 ·

replacing files old versions x or

+ Synonyms

+ Synonyms

SEARCH FIELDS

Date · Priority ▾

YYYY-MM-DD -- YYYY-MM-DD

+ Inventors

+ Assignees

Patent Office ▾ Language ▾

Status ▾ Type ▾

Litigation ▾

Method and system for updating versions of content stored in a storage device

WO EP US JP KR AU CA • [EP1662204B1](#) • Ezyatar Meir • Red Blend Ltd.

Priority 2009-06-28 • Filed 2009-06-28 • Granted 2012-10-10 • Published 2012-10-10

A method for updating an old version of content giving rise to a new version of content, comprising: (i) obtaining a compact update package (1601); said compact update package including: a conversion element associated with said old version (202) and new version (203) and including a collection of ...

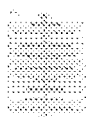
Peer-to-peer redundant file server system and methods

WO US TW • [TW200904100](#) • Francesco Lacapra • Mediatech Inc.

Priority 2008-04-29 • Filed 2008-04-29 • Granted 2015-03-11 • Published 2015-03-11

An archive storage system for processing a standard file system request including a path name, the system comprising: a plurality of storage providers; a client, communicating with the storage provider, accepting the file system request and generating a request corresponding reformatting request ...

System and method for updating application archive files

US • [US20120173982](#) • Paul William Chinn • Apple Inc.

Priority 2012-05-08 • Filed 2012-09-06 • Granted 2015-01-26 • Published 2015-01-26

Systems, methods, and non-transitory computer-readable storage media for updating software applications installed on client computing devices, creating a manifest file describing the differences between multiple versions of application archives present in an application distribution systems, and ...

Preserving file metadata during atomic save operations

US • [US20080969282](#) • Eric Joseph Uehara • Google LLC

Priority 2008-09-08 • Filed 2010-11-25 • Granted 2019-05-14 • Published 2019-05-14

A method of preserving file metadata associated with an edited file, performed on a client device, includes storing in a log information denoting a plurality of create, delete, and rename operations on one or more files in a file system, and determining when two or more operations denoted in the ...

Method and software for reducing server requests by a browser

US • [US8126767B2](#) • Frank H. Albrecht • Sap Ag

Priority 2008-12-22 • Filed 2008-12-22 • Granted 2012-06-05 • Published 2012-06-05

This disclosure provides various embodiments of systems, software, and computerized methods for reducing the number of server requests sent to a web server. In one aspect, the software generates a file reference uniquely identifying a version of a file capable of being cached by a requester. The ...

Methods and systems for updating content including a compressed version

WO EP US CN KR • [KR101858834B1](#) • 이바다르 밀러 • 테드 핸드 리마티드

Priority 2005-10-05 • Filed 2006-10-05 • Granted 2014-02-07 • Published 2014-02-07

Methods and systems are provided for properly updating the contents of an original version with the contents of an updated version in a nonvolatile memory device comprising blocks, wherein the original version and / or the updated version are compressed in the storage device. in-Place Updates, ...

Modifying web content at a client

US • [US2011051881](#) • Harsharan Kalam • Interli Logic, Inc.

Priority 2014-11-21 • Filed 2015-10-01 • Granted 2017-05-02 • Published 2017-05-02

Producing a modified document object model structure is disclosed. A desired webpage is requested. An alternative webpage is received in response to the request instead of an original version of the desired webpage to be rendered. The alternative webpage is processed. Program code included in the ...

Digital information infrastructure and method for security designated data and ...

US • [US8666244B2](#) • Ron M. Redlich • Digital Guard, Inc.

Priority 2007-01-05 • Filed 2009-04-29 • Granted 2013-06-18 • Published 2013-06-18

Distributed computer system processes data having select content (SC) represented by one or more predetermined words, characters, etc. The system has a plurality of SC data stores in a server cloud for respective security designated (Sec-D) data and granular data, each with respective access ...

Providing customized electronic information

US • [US8171882B2](#) • Frederick S. M. Herz • Paypoint, Incorporated

Priority 1994-11-28 • Filed 2008-09-04 • Granted 2012-05-01 • Published 2012-05-01

This invention relates to customized electronic identification of desirable objects, such as news articles, in an electronic media environment, and is distinctive to a system that automatically associates with a "Pinpoint

...profile" for each target object in the electronic media based, for example, on ...

Method for sharing application between terminals, and terminal



WQ EP US CN • US20200344772A1 • Chen Wang • Huawei Device Co., Ltd.
Priority 2019-11-29 • Filed 2020-07-07 • Published 2020-10-22

What is claimed is: 1. A system comprising: a first mobile phone and a second mobile phone, wherein the first mobile phone is capable of directly connecting with the second mobile phone via a WiFi connection, wherein the first mobile phone is configured to carry out a method comprising:

Next > >> About 135,828 results

| | | |
|-----|---|----------|
| 17. | Methods and apparatus for processing metadata | Abstract |
| 18. | Methods and apparatuses for processing metadata are described herein. In one embodiment, when a file (e.g., a text, audio, and/or image files) having metadata is received, the metadata and optionally at least a portion of the content of the file are extracted from the file to generate a first set of... | Abstract |
| | CURRENT ASSOCIATES APPLE INC. US20070128901 US APPLICATIONS 10-050-2997 | Abstract |
| 19. | Methods and systems for managing data | Abstract |
| 20. | Systems and methods for managing data, such as metadata. In one exemplary method, metadata from files created by several different software applications are captured, and the captured metadata is searched. The type of information in metadata for one type of file differs from the type of information... | Abstract |
| | CURRENT ASSOCIATES APPLE INC. US20070128901 US APPLICATIONS 10-050-2997 | Abstract |
| 21. | Methods and systems for managing data | Abstract |
| 22. | Systems and methods for managing data, such as metadata. In one exemplary method, metadata from files created by several different software applications are captured, and the captured metadata is searched. The type of information in metadata for one type of file differs from the type of information... | Abstract |
| | CURRENT ASSOCIATES APPLE INC. US20070128901 US APPLICATIONS 10-050-2997 | Abstract |
| 23. | Methods and apparatus for processing metadata | Abstract |
| 24. | Methods and apparatuses for processing metadata are described herein. In one embodiment, when a file (e.g., a text, audio, and/or image files) having metadata is received, the metadata and optionally at least a portion of the content of the file are extracted from the file to generate a first set of... | Abstract |
| | CURRENT ASSOCIATES APPLE INC. US20070128901 US APPLICATIONS 10-050-2997 | Abstract |
| 25. | Methods and systems for managing data | Abstract |
| 26. | Systems and methods for managing data, such as metadata or index databases. In one exemplary method, a notification that an existing file has been modified or that a new file has been created is received by an indexing software component, which then incorporates the notification performed on... | Abstract |
| | CURRENT ASSOCIATES APPLE INC. US20070128901 US APPLICATIONS 10-050-2997 | Abstract |
| 27. | Methods and systems for processing data | Abstract |

17. Method and apparatus for allowing distributed control of shared resources

- 17.1 The system comprises a control table (200, 205) which includes a plurality of entries for indicating whether the control table (200, 205) is available and metrics for indicating operation of the data volume and control processes which are executed on each client (54, 56) for requesting and accounting.

CURRENT ASSIGNMENT: 12-05-1998

CALLING CARD APPLICATIONS: 12-05-1998

12-05-1998

18. Managed distribution of digital assets

- 18.1 A technique for establishing usage control over digital assets such as computer files. The system monitors not only unauthorized users' access to files, but monitors passage of such files to uncontrollable removable storage media or through network connections (Figure 2, 100) and the like which...

CURRENT ASSIGNMENT: 12-05-1998

CALLING CARD APPLICATIONS: 12-05-1998

12-05-1998

Inventor Information for 16/361641

| Inventor Name | City | State/Country |
|---------------------|---------|---------------|
| MANZANO, MICHAEL R. | SEATTLE | WASHINGTON |

| | | | | | | | | | | | |
|------------|----------|---------------|-----------------|-----------------|--------------|------------------|------------|---------|------|-----------|--------|
| Appln Info | Comments | Petition Info | Atty/Agent Info | Continuity Data | Foreign Data | Inventors | Applicants | Address | Fees | Post Info | Pre Gr |
|------------|----------|---------------|-----------------|-----------------|--------------|------------------|------------|---------|------|-----------|--------|

Search Another: Application # or Patent # or International Registration #

PCT / / or PG PUBS #

Attorney Docket #

Bar Code #

To Go BACK Use BACK Button on Your BROWSER Tool Bar

Back to [PALM](#) | [ASSIGNMENT](#) | [DASP](#) | [Home page](#)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.C./

FORM PTO-1449 (modified)
Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

To: U.S.

Atty.

Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: 16/361,641

Filing Date: March 21, 2019

Date: December 8, 2020

Page

1

of

2

Examiner: CHANNAVAJJALA, SRIRAMA T.

Group Art Unit: 2158

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|----------------------|------------------|--------------|--------------------------------------|-------|-----------|------------------------------|
| | AR 5,675,802 | 10/1997 | ALLEN | | | |
| | BR 5,920,867 | 07/1999 | VAN HUBEN | | | |
| | CR 6,526,418 | 02/2003 | MIDGLEY | | | |
| | DR 6,757,893 | 06/2004 | HAIKIN | | | |
| | ER 7,035,847 | 04/2006 | BROWN et al. | | | |
| | FR 7,325,038 | 01/2008 | WANG | | | |
| | GR 7,529,778 | 05/2009 | DEWEY | | | |
| | HR 7,680,838 | 03/2010 | SHAW | | | |
| | IR 7,707,165 | 04/2010 | JIANG | | | |
| | JR 7,796,779 | 09/2010 | STRONG et al. | | | |
| | KR 7,885,925 | 02/2011 | STRONG et al. | | | |
| | LR 8,019,900 | 09/2011 | SEKAR et al. | | | |
| | MR 8,208,792 | 06/2012 | MORIOKA | | | |
| | NR 8,504,519 | 08/2013 | SACHS | | | |
| | OR 8,595,182 | 11/2013 | NELSON | | | |
| | PR 8,874,534 | 10/2014 | MARCH | | | |
| | QR 10,067,942 | 09/2018 | MANZANO | | | |
| | RR 10,289,607 | 05/2019 | MANZANO | | | |
| | SR 2002/0055942 | 05/2002 | REYNOLDS | | | |
| | TR 2002/0143795 | 10/2002 | FLETCHER | | | |
| | UR 2002/0184318 | 12/2002 | PINEAU | | | |
| | VR 2003/0074376 | 04/2003 | BENAYOUN | | | |
| | WR 2003/0233241 | 12/2003 | MARSH | | | |
| | XR 2004/0003013 | 01/2004 | COULTHARD | | | |
| | YR 2004/0031027 | 02/2004 | HILTGEN | | | |
| | ZR 2005/0027757 | 02/2005 | KIESSIG | | | |
| | AAF 2005/0165722 | 07/2005 | CANNON | | | |
| | BBF 2005/0177602 | 08/2005 | KALER | | | |
| | CCF 2005/0192966 | 09/2005 | HILBERT | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|-----------------|--------------|---------|---------------|------------------|-------------------------------|
| | | | | Enclosed | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | |
|-----|--|--|--|
| DDF | | | |
|-----|--|--|--|

Examiner /Srirama Channavajjala/

Date Considered: 12/17/2020

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.C./

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: 16/361,641

Filing Date: March 21, 2019

Date: December 8, 2020

Page

2

of

2

Examiner: CHANNAVAJJALA, SRIRAMA T.

Group Art Unit: 2158

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|----------------------|-----------------|--------------|--------------------------------------|------------------|-----------|------------------------------|
| | EEF | 2005/0223047 | 10/2005 | SHAH | | |
| | FFR | 2006/0004698 | 01/2006 | PYHALAMMI | | |
| | GG | 2006/0026567 | 02/2006 | MCVOY | | |
| | HHF | 2006/0101064 | 05/2006 | STRONG et al. | | |
| | IIR | 2006/0136446 | 06/2006 | HUGHES | | |
| | JJR | 2006/0224626 | 10/2006 | LAKSHMINATH | | |
| | KKF | 2007/0022158 | 01/2007 | VASA | | |
| | LLR | 2007/0124334 | 05/2007 | PEPIN | | |
| | MM | 2007/0203927 | 08/2007 | CAVE | | |
| | NNF | 2008/0005195 | 01/2008 | LI | | |
| | OO | 2009/0024922 | 01/2009 | MARKOWITZ et al. | | |
| | PPF | 2009/0037718 | 02/2009 | GANESH | | |
| | QQ | 2012/0192064 | 07/2012 | ANTEBI | | |
| | RRF | 2013/0226872 | 08/2013 | BAREFOOT | | |
| | SSF | 2014/0053227 | 02/2014 | RUPPIN | | |
| | TTR | 2016/0125058 | 05/2016 | JAIN | | |

FOREIGN PATENT DOCUMENTS

| ORIGINAL PARENT DOCUMENTS | | | | | | Abstract | | Readily Available | |
|---------------------------|-----|-----------------|--------------|---------|---------------|----------|----|-------------------|----|
| | | Document Number | Date MM/YYYY | Country | Inventor Name | Enclosed | No | Enclose | No |
| | UUF | | | | | | | | |
| | VVF | | | | | | | | |
| | WW | | | | | | | | |
| | XXF | | | | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | | | |
|--|-----|--|--|--|--|--|--|
| | YYF | | | | | | |
| | ZZF | | | | | | |
| | AAA | | | | | | |
| | BBF | | | | | | |

Examiner /Srirama Channavajjala/

Date Considered:

12/17/2020

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

All



ADVANCED SEARCH

Search within results



Download PDFs ▾ Per Page: 25 ▾ Export ▾ Set Search Alerts ▾ Search History

Showing 1-25 of 53 for file versions modifying »

▼ Filters Applied: 1993 - 2006 »

☐ Conferences (36)☐ Journals (11)☐ Magazines (2)☐ Courses (1)☐ Standards (1)

Show

- ☒ All Results
- ☐ Submitted Content
- ☐ Open Access Only

Year



Single Year Range

1993 2006

From

To

1993

2006

Author ▾

Affiliation ▾

Publication Title ▾

Publisher ▾

Conference Location ▾

Standard Status ▾

Standard Type ▾

Publication Topics ▾

☐ Select All on Page

Sort By: Relevance ▾

☐ The unique reference NC SLOC metric

S.D. Crouch, D.B. Simmons

Proceedings, Twenty-Third Annual International Computer Software and Applications Conference (Cat. No. 99CB37032)

Year: 1999 | Conference Paper | Publisher: IEEE

► Abstract (203 Kb)

☐ On Analyses of the Modified Versions of the Consecutive Retrieval File Organization

Hirohige Inazumi, Shigeichi Hirasawa

IEEE Transactions on Systems, Man, and Cybernetics

Year: 1987 | Volume: 17, Issue: 2 | Journal Article | Publisher: IEEE

Cited by: Papers (1)

► Abstract (2119 Kb)

☐ Component-based APIs for versioning and distributed applications

R.J. Stets, G.D. Hunt, M.L. Scott

Computer

Year: 1999 | Volume: 32, Issue: 7 | Magazine Article | Publisher: IEEE

Cited by: Papers (7) | Patents (30)

► Abstract (154 Kb)

☐ Continuous media recording for video conferencing

Meng-Huang Lee, Chia-Hsiang Chang, Meng-Chang Chen, Jan-Ming Ho, Ming-Ta Ko, Yen-Jen Oyang, Kuo-Hui Tsai

Proceedings of IEEE Singapore International Conference on Networks and International Conference on Information Engineering '95

Year: 1995 | Conference Paper | Publisher: IEEE

► Abstract (485 Kb)

☐ A lexical comparison program to simplify the maintenance of portable software

M. Frame

Proceedings, Conference on Software Maintenance, 1988.

Year: 1988 | Conference Paper | Publisher: IEEE

Cited by: Patents (4)

► Abstract (173 Kb)

☐ External data interface tools for the Particle Beam Optics Laboratory

G.H. Gillespie, B.W. Hill, H. Marono, J.M. Moore

Proceedings of the 1999 Particle Accelerator Conference (Cat. No. 99CH38366)

Year: 1999 | Volume: 4 | Conference Paper | Publisher: IEEE

Cited by: Papers (1)

► Abstract (347 Kb)

☐ An extended inverted file approach for information retrieval

Standards Dictionary Terms ?

- **\$\boldsymbol{\pi}\$** -out-of-**\$\boldsymbol{\pi}\$** code.
- **\$\boldsymbol{\pi}\$** - address in instruction.
- **\$\boldsymbol{\pi}\$** -adic Boolean operation
- **\$\boldsymbol{\pi}\$** -adic operation.
- **\$\boldsymbol{\pi}\$** -adic.
- **\$\boldsymbol{\pi}\$** -ary Boolean operation ².
- **\$\boldsymbol{\pi}\$** -ary

Showing 1/1


I. Ounis, M. Pasco

Proceedings of the 1997 International Database Engineering and Applications Symposium (Cat
No 97TB160166)

Year: 1997 | Conference Paper | Publisher: IEEE

Cited by: Papers (2) | Patents (9)

► Abstract  1960 Kb 

-
- ☐ **Computer aided electromagnetic field instruction on Project Athena** 
J.L. Kirtley
International Symposium on Antennas and Propagation Society, Merging Technologies for the 90's
Year: 1990 | Conference Paper | Publisher: IEEE

► Abstract  1142 Kb 

Showing 1-3 of 3 for automatic transfer priority files »


▼ Filters Applied: 1989 - 2006 »

☐ Conferences (1)

☐ Journals (1)

☐ Standards (1)

Show

- ☒ All Results
- ☐ Subscribed Content 
- ☐ Open Access Only

Year



Single Year

Range

1989

1993

From

1989

To

1993

☐ Select All on Page

Sort By: Relevance ▼

☐ Comparison of three access protocols for VSAT networks




M. Jolfaei; K. Jolfaei; U. Quernheim

Proceedings of ICC '93 - IEEE International Conference on Communications

Year: 1993 | Volume: 3 | Conference Paper | Publisher: IEEE

Cited by: Papers (2) | Patents (1)

► Abstract

 (599 kb)



☐ Optimal dynamic scheduling in Jackson networks




K.W. Ross; D.D. Yao

IEEE Transactions on Automatic Control

Year: 1989 | Volume: 34, Issue: 1 | Journal Article | Publisher: IEEE

Cited by: Papers (26)

► Abstract

 (712 kb)



EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-------|------------------|---------|------------------|
| L26 | 1 | (pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:18 |
| L27 | 1 | (push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:18 |
| L28 | 1 | (object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:19 |
| L29 | 1 | (agent and object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:19 |

EAST Search History (Interference)

| | | | | | | |
|-----|---|---|-------|-----|----|------------------|
| L30 | 1 | (mobile and agent and object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:19 |
| L31 | 1 | (environment and mobile and agent and object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:19 |
| L32 | 1 | (runtime and environment and mobile and agent and object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:20 |
| L33 | 1 | (application\$1 and runtime and environment and mobile and agent and object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:20 |

EAST Search History (Interference)

| | | | | | | |
|-----|---|--|-------|-----|----|------------------|
| L34 | 1 | (creat\$3 and application\$1 and runtime and environment and mobile and agent and object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:20 |
| L35 | 1 | (proxy and creat\$3 and application\$1 and runtime and environment and mobile and agent and object\$1 and push and pull and request and configur\$3 and present\$3 and availability and assignment\$1 and replac\$3 and network\$3 and client and device and transfer\$4 and greater and second and assign\$3 and priorit\$3 and metadata and stor\$3 and generat\$3 and version\$1 and modify\$3 and content\$1 and respons\$4 and automatically and user\$1 and server\$1 and system and receiv\$3 and network\$3 and copy and first and file and client and device\$1).clm. | USPAT | AND | ON | 2020/12/18 10:20 |
| L37 | 0 | (replac\$3 and old and version\$1 and file\$1 and stor\$3 and client and device\$1 and prior and copy and transfer\$3 and priority and metadata and network\$3).clm. | USPAT | AND | ON | 2020/12/18 10:23 |

PLUS Search Results for S/N 16361641, Searched Thu Dec 17 14:02:20 EST 2020
 The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

| | | |
|------------|------------|------------|
| 5867112 99 | 5634056 99 | 6061693 99 |
| 5699428 99 | 5646866 99 | 6073222 99 |
| 5796825 99 | 5657470 99 | |
| 5630081 99 | 5678042 99 | |
| 5438671 99 | 5680617 99 | |
| 5680609 99 | 5684991 99 | |
| 5819276 99 | 5696975 99 | |
| 6243766 99 | 5706454 99 | |
| 4757533 99 | 5715455 99 | |
| 5388257 99 | 5721897 99 | |
| 5638521 99 | 5732266 99 | |
| 5671420 99 | 5734882 99 | |
| 5920700 99 | 5734901 99 | |
| 6055543 99 | 5778380 99 | |
| 6216175 99 | 5792972 99 | |
| 6216175 99 | 5809498 99 | |
| 4914587 99 | 5809138 99 | |
| 5496071 99 | 5819296 99 | |
| 5574906 99 | 5822524 99 | |
| 5579479 99 | 5832100 99 | |
| 5627996 99 | 5835953 99 | |
| 5634052 99 | 5835759 99 | |
| 5710878 99 | 5845273 99 | |
| 5764890 99 | 5857072 99 | |
| 5813017 99 | 5860004 99 | |
| 5892825 99 | 5864870 99 | |
| 5913215 99 | 5864853 99 | |
| 5920868 99 | 5870624 99 | |
| 5937164 99 | 5875110 99 | |
| 5935210 99 | 5878218 99 | |
| 6014696 99 | 5892954 99 | |
| 6047060 99 | 5893116 99 | |
| 6070175 99 | 5913218 99 | |
| 6122635 99 | 5907672 99 | |
| 6122629 99 | 5933609 99 | |
| 6230288 99 | 5946677 99 | |
| 4290114 99 | 5948057 99 | |
| 4763252 99 | 5953720 99 | |
| 4775969 99 | 5958051 99 | |
| 4847619 99 | 5987239 99 | |
| 4862345 99 | 5988899 99 | |
| 4870415 99 | 6006195 99 | |
| 4994971 99 | 6014668 99 | |
| 5390796 99 | 6021491 99 | |
| 5495607 99 | 6026148 99 | |
| 5515486 99 | 6026392 99 | |
| 5570296 99 | 6035308 99 | |
| 5586301 99 | 6056556 99 | |
| 5604906 99 | 6061693 99 | |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 41376816 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Sarah Clarke |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 14-DEC-2020 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 14:59:47 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|---|-----------------------------|---|------------------|------------------|
| 1 | Amendment/Req. Reconsideration-After Non-Final Reject | 023027_0504053_Response.pdf | 75411 8769d2768d03200640b0e246e9332317b0310da7 | no | 9 |

Warnings:

Box & Dropbox Exhibit 1012

| | |
|---|-------|
| Information: | |
| Total Files Size (in bytes): | 75411 |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | |

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

| | | | | |
|-------------------------------------|--------------------|---|-----------------------------|--------------------------|
| In Re Patent Application Of: | Michael R. MANZANO |) | Attorney Docket No.: | 023027-0504053 |
| Serial No.: | 16/361,641 |) | Confirmation No.: | 7093 |
| Filing Date: | March 22, 2019 |) | Examiner: | Srirama T. Channavajjala |
| | |) | Art Unit: | 2157 |

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**RESPONSE TO OFFICE ACTION
MAILED NOVEMBER 10, 2020**

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

In response to the Office Action mailed **November 10, 2020** (hereinafter “Office Action”), please amend the above-identified application as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 8 of this paper.

It is believed that no extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to Deposit Account No. 033975 (**Ref. No. 023027-0504053**).

This listing of claims will replace all prior versions and listings of claims in the Application.

LISTING OF CLAIMS:

1. **(Currently Amended)** A system comprising:

a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:

receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file; ~~determine that the server system is not in communication with a second client device associated with the user; and~~

store the copy of the first file on the server system;

receive, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file;

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device; and

automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to ~~(i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.~~

2. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

store the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server

system responsive to determining that the server system is not in communication with the second client device; and

automatically transfer the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.

3. **(Cancelled)**

4. **(Currently Amended)** The system of ~~claim 3,~~ claim 1, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

5. **(Currently Amended)** The system of ~~claim 3,~~ claim 1, wherein availability of the version of the first file is presented at the second client device based on the first metadata.

6. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being a version of the second file that is generated from the user modifying the content of the second file;

determine that the server system is in communication with the first client device associated with the user; and

automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive

to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the first file from the second client device.

7. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

periodically perform a pull request, wherein the copy of the first file is automatically received from the first client device responsive to (i) the pull request and (ii) the user modifying the content of the first file stored on the first client device.

8. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

9. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects.

10. **(Original)** The system of claim 9, wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system.

11. **(Original)** The system of claim 10, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

12. **(Currently Amended)** A method being implemented by a server system comprising one or more processors executing computer program instructions that, when executed, perform the method, the method comprising:

receiving, by the server system, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the

first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file; ~~determining, by the server system, whether the server system is in communication with a second client device associated with the user;~~

receiving, by the server system, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file;

automatically transferring, by the server system, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device; and

automatically transferring, by the server system, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) ~~determining that the server system is in communication with the second client device and~~ (ii) receiving the copy of the first file from the first client device.

13. **(Original)** The method of claim 12, further comprising:

initially determining, by the server system, that the server system is not in communication with the second client device associated with the user; and

automatically transferring, by the server system, the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device, (ii) determining that the server system is in communication with the second client device, (iii) and receiving the copy of the first file from the first client device.

14. **(Original)** The method of claim 12, further comprising:

storing, by the server system, the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated

with the server system responsive to initially determining that the server system is not in communication with the second client device.

15. **(Cancelled)**

16. **(Currently Amended)** The method of ~~claim 15~~, claim 12, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

17. **(Original)** The method of claim 12, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, and wherein the first application is configured to create a first mobile object, and the first mobile object is configured to create a proxy object at the server system and to provide the copy of the first file to the proxy object.

18. **(Currently Amended)** One or more non-transitory machine-readable media storing instructions that, when executed by one or more processors of a first computer system, cause operations comprising:

receiving, by the first computer system, over a network, a copy of a first file from a second computer system associated with a user, wherein the copy of the first file is automatically received from the second computer system responsive to the user modifying a content of the first file stored on the second computer system, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file; ~~determining, by the first computer system, that the first computer system is not in communication with a third computer system associated with the user;~~

storing, by the first computer system, the copy of the first file on the first computer system;

receiving, by the first computer system, from the second computer system, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file;

automatically transferring, by the first computer system, based on the first priority being greater than the second priority, the first metadata to a third computer system associated with the user such that the first metadata is transferred to the third computer system prior to the copy of the first file being transferred to the third computer system; and

automatically transferring, by the first computer system, over a network, the copy of the first file to the third computer system associated with the user to replace an older version of the first file stored on the third computer system, responsive to ~~(i) resuming communication with the third computer system and (ii) receiving the copy of the first file from the second computer system.~~

19. (Cancelled)

20. **(Currently Amended)** The one or more non-transitory machine-readable media of ~~claim 19, claim 18,~~ wherein at least one of the first computer system or the second computer system comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the first computer system or the second computer system assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

REMARKS

By this response, claims 1, 2, 4-14, 16-18, and 20 are pending. Claim 1, 4, 5, 12, 16, 18, and 20 has been amended, and claims 3, 15, and 19 have been cancelled without prejudice or disclaimer. No claims have been newly added. In view of the following comments, allowance of all the claims pending in the application is respectfully requested.

SECTION 103 REJECTIONS

Although Applicant respectfully disagrees with the rejections, Applicant has amended the claims solely to expedite allowance of this case, rendering the rejections moot. Accordingly, Applicant respectfully request withdrawal of the rejections.

For example, as discussed in the recent Appeal Brief with respect to claims 3-5, 15, 16, 19, and 20 (prior to entry of the amendments), the claimed inventions involve a computer system (e.g., a server system) that automatically transfers metadata associated with a copy of a file (received from a first client device) to the second client device prior to the copy of the file being transferred to the second device, where such transfer is based on the associated metadata being assigned a first priority greater than a second priority assigned to the copy the first file.

U.S. Patent Application Publication No. 2007/0180084 to Mohanty (“Mohanty”) merely describes the use of rules and priorities to determine which instances of a file should prevail in the event of a conflict in the differences (e.g., changes) between the file instances. *See Mohanty* at ¶¶ 32, 51, 52. Mohanty does not, however, describe the assignment of a greater priority to metadata associated with a copy of a file (as compared to the priority assigned to the copy of the file), where the associated metadata is automatically transferred to a second client device prior to the copy of the first being transferred to the second client device based on the associated metadata being assigned the greater priority, in the manner recited by the claims.

U.S. Patent Application Publication No. 20070174246 to Sigurdsson (“Sigurdsson”) fails to overcome the foregoing deficiencies of Mohanty because, similar to Mohanty, Sigurdsson also simply describe the use of priorities between documents or other data items. For example, paragraph 59 describes that “the priorities are based on attributes such as their size, type or age, which are each associated with a score [where] a small document (e.g., an office memo) would receive lower score based on size, thus a higher priority. Similarly, a large document (e.g., a

maintenance manual) and digital photos would receive a higher score (and a lower priority). A data item's age would also affect its priority, with a higher priority being assigned to a newer data item."

CONCLUSION

Having addressed each of the foregoing rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action and, as such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Respectfully submitted,

Date: December 14, 2020

PILLSBURY WINTHROP SHAW PITTMAN LLP

By: /Ngai B. Zhang/
Ngai B. Zhang
Registration No. 65,473

P.O. Box 10500
McLean, Virginia 22102
Direct Dial: 703.770.7532
Main: 703.770.7900
Fax: 703.770.7901

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | | | | | | | | |
|---|--|---|--------------|--|---------------|---------------------------|--|---------------------------------------|--|--|
| PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875 | | | | Application or Docket Number 16/361,641 | | Filing Date 03/22/2019 | | <input type="checkbox"/> To be Mailed | | |
| ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO | | | | | | | | | | |
| APPLICATION AS FILED - PART I | | | | | | | | | | |
| | | (Column 1) | (Column 2) | | | | | | | |
| FOR | | NUMBER FILED | NUMBER EXTRA | RATE (\$) | | FEE (\$) | | | | |
| <input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c)) | | N/A | N/A | N/A | | | | | | |
| <input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m)) | | N/A | N/A | N/A | | | | | | |
| <input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q)) | | N/A | N/A | N/A | | | | | | |
| TOTAL CLAIMS (37 CFR 1.16(i)) | | minus 20 = | * | x \$100 = | | | | | | |
| INDEPENDENT CLAIMS (37 CFR 1.16(h)) | | minus 3 = | * | x \$460 = | | | | | | |
| <input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s)) | | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). | | | | | | | | |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) | | | | | | | | | | |
| * If the difference in column 1 is less than zero, enter "0" in column 2. | | | | TOTAL | | | | | | |
| APPLICATION AS AMENDED - PART II | | | | | | | | | | |
| | | (Column 1) | (Column 2) | (Column 3) | | | | | | |
| AMENDMENT | 12/14/2020 | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$) | | ADDITIONAL FEE (\$) | | |
| | Total (37 CFR 1.16(i)) | * 17 | Minus | ** 20 | = 0 | x \$100 = | | 0 | | |
| | Independent (37 CFR 1.16(h)) | * 3 | Minus | *** 3 | = 0 | x \$480 = | | 0 | | |
| | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s)) | | | | | | | | | |
| | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | | | |
| | | | | | | TOTAL ADD'L FEE | | 0 | | |
| | | (Column 1) | (Column 2) | (Column 3) | | | | | | |
| AMENDMENT | | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$) | | ADDITIONAL FEE (\$) | | |
| | Total (37 CFR 1.16(i)) | * | Minus | ** | = | x \$0 = | | | | |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | x \$0 = | | | | |
| | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s)) | | | | | | | | | |
| | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | | | |
| | | | | | | TOTAL ADD'L FEE | | | | |
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3. | | | | | | LIE | | | | |
| ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". | | | | | | /ROSS W BROWN/ | | | | |
| *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". | | | | | | | | | | |
| The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1. | | | | | | | | | | |

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

To: U.S.

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: 16/361,641

Filing Date: March 21, 2019

Date: December 8, 2020

Page

1

of

2

Examiner: CHANNAVAJJALA, SRIRAMA T.

Group Art Unit: 2158

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|---------------------------------|
| | AR 5,675,802 | 10/1997 | ALLEN | | | |
| | BR 5,920,867 | 07/1999 | VAN HUBEN | | | |
| | CR 6,526,418 | 02/2003 | MIDGLEY | | | |
| | DR 6,757,893 | 06/2004 | HAIKIN | | | |
| | ER 7,035,847 | 04/2006 | BROWN et al. | | | |
| | FR 7,325,038 | 01/2008 | WANG | | | |
| | GR 7,529,778 | 05/2009 | DEWEY | | | |
| | HR 7,680,838 | 03/2010 | SHAW | | | |
| | IR 7,707,165 | 04/2010 | JIANG | | | |
| | JR 7,796,779 | 09/2010 | STRONG et al. | | | |
| | KR 7,885,925 | 02/2011 | STRONG et al. | | | |
| | LR 8,019,900 | 09/2011 | SEKAR et al. | | | |
| | MR 8,208,792 | 06/2012 | MORIOKA | | | |
| | NR 8,504,519 | 08/2013 | SACHS | | | |
| | OR 8,595,182 | 11/2013 | NELSON | | | |
| | PR 8,874,534 | 10/2014 | MARCH | | | |
| | QR 10,067,942 | 09/2018 | MANZANO | | | |
| | RR 10,289,607 | 05/2019 | MANZANO | | | |
| | SR 2002/0055942 | 05/2002 | REYNOLDS | | | |
| | TR 2002/0143795 | 10/2002 | FLETCHER | | | |
| | UR 2002/0184318 | 12/2002 | PINEAU | | | |
| | VR 2003/0074376 | 04/2003 | BENAYOUN | | | |
| | WR 2003/0233241 | 12/2003 | MARSH | | | |
| | XR 2004/0003013 | 01/2004 | COULTHARD | | | |
| | YR 2004/0031027 | 02/2004 | HILTGEN | | | |
| | ZR 2005/0027757 | 02/2005 | KIESSIG | | | |
| | AAF 2005/0165722 | 07/2005 | CANNON | | | |
| | BBF 2005/0177602 | 08/2005 | KALER | | | |
| | CCF 2005/0192966 | 09/2005 | HILBERT | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|------------------|-------------------------------------|
| | | | | Enclosed | No |
| | | | | Enclose | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | |
|-----|--|--|--|
| DDF | | | |
|-----|--|--|--|

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: 16/361,641

Filing Date: March 21, 2019

Date: December 8, 2020

Page

2

of

2

Examiner: CHANNAVAJJALA, SRIRAMA T.

Group Art Unit: 2158

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | EEF2005/0223047 | 10/2005 | SHAH | | | |
| | FFR2006/0004698 | 01/2006 | PYHALAMMI | | | |
| | GG2006/0026567 | 02/2006 | MCVOY | | | |
| | HHF2006/0101064 | 05/2006 | STRONG et al. | | | |
| | IIR2006/0136446 | 06/2006 | HUGHES | | | |
| | JJR2006/0224626 | 10/2006 | LAKSHMINATH | | | |
| | KKF2007/0022158 | 01/2007 | VASA | | | |
| | LLR2007/0124334 | 05/2007 | PEPIN | | | |
| | MM2007/0203927 | 08/2007 | CAVE | | | |
| | NNF2008/0005195 | 01/2008 | LI | | | |
| | OO2009/0024922 | 01/2009 | MARKOWITZ et al. | | | |
| | PPF2009/0037718 | 02/2009 | GANESH | | | |
| | QQ2012/0192064 | 07/2012 | ANTEBI | | | |
| | RRF2013/0226872 | 08/2013 | BAREFOOT | | | |
| | SSF2014/0053227 | 02/2014 | RUPPIN | | | |
| | TTR2016/0125058 | 05/2016 | JAIN | | | |

FOREIGN PATENT DOCUMENTS

| | Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | | Translation Readily Available | |
|--|--------------------|-----------------|---------|---------------|---------------------|----|-------------------------------------|----|
| | | | | | Enclosed | No | Enclose | No |
| | UUF | | | | | | | |
| | VVF | | | | | | | |
| | WW | | | | | | | |
| | XXF | | | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | | | | |
|--|-----|--|--|--|--|--|--|--|
| | YYF | | | | | | | |
| | ZZF | | | | | | | |
| | AAA | | | | | | | |
| | BBF | | | | | | | |

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Electronic Patent Application Fee Transmittal

| | | | | |
|---|---|-----------------|---------------|-----------------------------|
| Application Number: | 16361641 | | | |
| Filing Date: | 22-Mar-2019 | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Ngai Bing Zhang/Maggie Barham | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Small Entity | | | | |
| Filing Fees for Utility under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Post-Allowance-and-Post-Issuance: | | | | |
| Extension-of-Time: | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|---|----------|----------|--------|----------------------|
| Miscellaneous: | | | | |
| SUBMISSION- INFORMATION DISCLOSURE STMT | 2806 | 1 | 130 | 130 |
| Total in USD (\$) | | | | 130 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 41320052 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Maggie Barham |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 08-DEC-2020 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 10:26:33 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|------------------|
| Submitted with Payment | yes |
| Payment Type | DA |
| Payment was successfully received in RAM | \$ 130 |
| RAM confirmation Number | E2020B8A26506539 |
| Deposit Account | |
| Authorized User | |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

| File Listing: | | | | | |
|--|--|------------------------------------|--|------------------|------------------|
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | Transmittal Letter | 023027-0504053_IDS_Transmittal.pdf | 92438 | no | 1 |
| | | | 35765fbf3b32d151a83fa30a34b49956e30e78fa | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Information Disclosure Statement (IDS) Form (SB08) | 023027-0504053_PTO-1449.pdf | 230493 | no | 2 |
| | | | 0e7fe628a2d4931cff464470ef051da530f63e36 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| This is not an USPTO supplied IDS fillable form | | | | | |
| 3 | Fee Worksheet (SB06) | fee-info.pdf | 30356 | no | 2 |
| | | | 54cae73f2e39fc7d100c3d1313feeb0ba8d543c6 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 353287 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

Michael R. MANZANO

Group Art Unit: 2158

Application No.: 16/361,641

Examiner: CHANNAVAJJALA, SRIRAMA T.

Filed: March 21, 2019

Confirmation No.: 7093

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicant respectfully requests the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicant with the next Office communication to indicate that the references have been considered, per MPEP § 609.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. Please charge Deposit Account 033975 in the amount of \$130.00 in payment of the fee under 37 CFR 1.17(p). Please credit or debit Deposit Account 033975 as needed to ensure consideration of the disclosed information.

Respectfully Submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

/Ngai B. Zhang/

Ngai B. Zhang
Registration Number 65,473
Customer Number: 00909

Date: December 8, 2020
Telephone: (703) 770-7900
Facsimile: (703) 770-7901
P.O. Box 10500
McLean, VA 22102



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

909 7590 11/10/2020
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

| |
|----------|
| EXAMINER |
|----------|

CHANNAVAJJALA, SRIRAMA T

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2158

| | |
|-------------------|---------------|
| NOTIFICATION DATE | DELIVERY MODE |
|-------------------|---------------|

11/10/2020

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

Office Action Summary

Application No.

16/361,641

Applicant(s)

MANZANO, Michael R.

Examiner

Srirama T Channavajjala

Art Unit

2158

AIA (FITF) Status

No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 9/4/2020.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☐ This action is **FINAL**.

2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

3) ☐ Interview Summary (PTO-413)

Paper No(s)/Mail Date ____.

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)

4) ☐ Other: ____.

Paper No(s)/Mail Date ____.

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

This application is a CON of 16/017,348 filed on 06/25/2018 US PAT 10289607 16/017,348 is a CON of 14/860,289 filed on 09/21/2015 US PAT 10067942 14/860,289 is a CON of 12/267,852 filed on 11/10/2008 US PAT 9143561 which claims benefit of US provisional 60/986,896 filed on 11/09/2007

TRACK 1 request granted on 4/21/2019.

In view of the appeal brief filed on 8/10/2020, PROSECUTION IS HEREBY REOPENED, non-final office action set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth

in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/BORIS GORNEY/
Supervisory Patent Examiner, Art Unit 2158

DETAILED ACTION

1. Claims 1-20 are pending in this application.
2. Examiner acknowledges applicant's remarks filed on 9/4/2020.

Drawings

3. The Drawings filed on 3/22/2019 are acceptable for examination purpose

Priority

4. Acknowledgment is made of applicant's claim for domestic priority based on an US provisional application 60/986,896 filed 11/9/2007.

Response to Argument

5. Applicant's arguments page 8-11 with respect to claims 1-20 filed 9/4/2020 have been fully considered, for examiners' response, see discussion below:

a) At page 8-9, claim 1, applicant argues:

"Mohanty fails to describe a server system that performs automated file transfers between at least two client devices in the manner recited in independent claims 1 and 12, or a computer system that performs such automated file transfers between at least two other computer systems in the manner recited in independent claim 18. For example, Mohanty does not disclose any such system that (i) receives a copy of a file from a user's first client device, (ii) determines whether the system is in communication with the user's second client device, and, (ii) responsive to resuming communication with the second client device (or determining that the device/system is in communication with the second client device)"

As to the above argument (a), as best understood by the examiner, the prior art is directed to managing logical documents, more specifically logical documents from the network devices associated with the wireless mobile devices (see fig 1, 0007); prior art of Mohanty teaches multiple mobile devices sharing files over a communication network, particularly logical documents may be associated with the mobile device 12 is automatically transferred from the mobile device 12 to other devices in the network.

The prior art of Sigurdsson is directed to file accessing, extracting contents from the file and automatically transmitting and/or receiving from the server including metadata to a peer client if the peer client and the first client are currently operating and

visible to each other on a network (Abstract, 0006). The prior art of Sigurdsson teaches content sharing in a network particularly client content (108) transmits to the server (106), and the content describes metadata (0034). The prior art of Sigurdsson also teaches temporary storage of content originating from any client (fig 1 step 202-210) can be performed with respect to the client B content 112 on the client B 104 and the transmission of this content to the server 106 (0036)

It is however, noted that Mohanty does not teach “determine that the server system is not in communication with a second client device associated with the user”

“store the copy of the first file on the server system”

“automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device,; responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device”, although Mohanty teaches logical documents are stored, copied, distributed on a selected network devices connected in an networking environment (fig 1, Abstract).

On the other hand, Sigurdsson teaches “determine that the server system is not in communication with a second client device associated with the user”(0027, line 8-15, 0031, line 6-9, fig 4, 0051, 0061 - Sigurdsson teaches client/server architecture sharing and synchronizing content, in a particular situation, server 106 temporarily storing content in client X from any clients 102,104,106 and if a particular client is offline when the first attempt is made to deliver new content to it, also prior art of Sigurdsson supports server fig 1, element 106 provides temporary storage or drop-box to the user files , facilitate sharing information between user's computers by storing the shared

content if the target computer is offline, later, when the target computer comes online, the server element 106 may transmit the content to the target computer as detailed in 0027, note: Sigurdsson teaches detects when a client that is offline comes online and automatically detects that a particular client is offline as detailed in 0061, line 4-6) . It is further noted that Sigurdsson supports whenever the client B (104) connects to the server (106), any missing claim A content 108 is copied automatically to the Client B (104) as shown element 118 (0031, line 6-9)

Sigurdsson teaches “store the copy of the first file on the server system” (0028, fig 1 - Claim A content 108 that includes a copy of the user’s file and sent automatically to the server 106 to store)

“automatically transfer, over a network, (fig 1, 0026 – Sigurdsson teaches exchange of content between computer devices, particularly files or content are automatically extracted and transmitted) the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device” (fig 5, 0052-0053,0064 – Sugurdsson teaches synchronizing content among client devices including performing files edit and save document and updating the index to reflect the new saved version of the document as detailed in 0053, line 1-3, as such index makes the file(s) easily locatable on the client) responsive to (i) resuming communication with the second client device (fig 4, fig 6, 0061-0062 – Sugurdsson teaches sharing and synchronizing file content when a client that is offline comes online i.e., resuming communication with other client device(s) and (ii) receiving the copy of the first file from the first client device” (fig 6, 0065 – Sugurdsson teaches file content activity between first client and the second client, the

content including copy of the document as well as metadata that describes the type of data received)

b) At page 9-10, claims 3-5,15-16,19-20, applicant argues:

Mohanty includes the term “version,” but only with respect to “how many past versions to keep” (27) and to enable a user “to recover a specific older version of a particular file” (47). Moreover, Mohanty merely describes the use of rules and priorities to determine which instances of a file should prevail in the event of a conflict in the differences (e.g., changes) between the file instances. See Mohanty at (32, 51, 52). Mohanty does not, however, describe the assignment of a greater priority to metadata associated with a copy of a file (as compared to the priority assigned to the copy of the file), where the associated metadata is automatically transferred to a second client device prior to the copy of the first being transferred to the second client device based on the associated metadata being assigned the greater priority,

As to the above argument (b), as best understood by the examiner, the prior art of Mohanty at least to the extent support file versions of a particular file (para 0027), also prior art of Mohanty teaches rules and priorities to resolve file differences (para 32, 51 and 52). It is however, noted that the prior art of Sugurdsson teaches each content associated with respective metadata for example transmitting and receiving the file content and metadata in a client server network environment, and the metadata describes the content such as time stamp, also metadata describing the file and the time and tracking the content, further metadata describes type of data, version of the file (0007,0034, line 8-10,0053-0054);prior art of Sugurdsson teaches assigning priority to

the data items and/or files i.e., server first processing higher priority, lower priority data items or files later and the priorities are based on attributes or metadata such as size, type or age and like (0058, line 15-24), also prior art of Sugurdsson teaches priority algorithm or priority formula that determines overall priority of the data items automatically sharing between client and server i.e, depending on available bandwidth on the clients and on the servers as detailed in 0059-0060.

Examiner applies above arguments to claims 2-8,12-16,18-20 depend from claims 1,12,18

c) At page 10-11, claims 9-11,17, applicant argues:

Mohanty fails to disclose “first application comprises a runtime environment for one or more mobile-agent objects.....the first application at the first client device being configured to create a first mobile object such that the first mobile object is configured to create a proxy object at the server system and the first mobile object being configured to provide the copy of the first file to the proxy object.....

As to the above argument (c), as best understood by the examiner, the prior art of Mohanty teaches network devices are associated with the wireless mobile devices and selected logical documents are stored, copied, distributed or backedup to the wireless mobile devices (Abstract, fig 1). The prior art of Mohanty supports synchronization rules and priority to support application-specific requirements (fig 5, 0051). The prior art of Sugurdsson suggests files associated with processing applications (0047). It is however, noted that Mohanty, Sigurdsson do not teach “wherein the first application comprises a runtime environment for one or more mobile-agent objects”, although Mohanty teaches mobile devices connected in a network

environment, and each mobile device handles logical document management files, as such mobile agent is a software and data that is able to migrate or move from one computer to another and continue its execution on the destination computer for example as shown in fig 1,fig 9-10). On the other hand, Yeager teaches “wherein the first application comprises a runtime environment for one or more mobile-agent objects” (fig 35, 0082,0086 – Yeager teaches peer-to-peer networking using a mobile agent)

It would have been obvious to one of the ordinary skill in the art at the time of applicant’s invention to incorporate managing distribution of content using mobile agents in a network environment of Yeager et al., into users of Mohanty, Sigurdsson because that would have allowed users of Mohanty, Sigurdsson to collect information on distributor content stored on the peer nodes, while peer devices may serve as a client or server to other devices (0080), further mobile agent may be configured to search for the latest version of a particular data file (Yeager: 0192)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claim(s) 1-8,12-16,18-20 are rejected under 35 U.S.C. 103(a) unpatentable over Mohanty, US Pub. No. 2007/0180084 filed on Feb 2006, published Aug 2007 in view of Sigurdsson et al., (hereafter Sigurdsson), US Pub. No. 2007/0174246 filed on Jan 2006.

7. As to Claim 1,12,18, Mohanty teaches "A system comprising: (fig 1A)
a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: (fig 1A-1B, element 12, 18, 22 – server system corresponds to Mohanty's mobile device element 22);

receive, over a network, (fig 1, element 20) a copy of a first file from a first client device associated with a user (fig 1C, mobile device element 16 having files A, file C stored corresponds to copy of a first file from first client device), wherein the copy of the first file is received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file” (page 3, 0029, 0030, 0032, page 4, 0034-0035, page 5, 0044, fig 1B-1C – Mohanty teaches multiple mobile devices sharing files over a communication network, particularly logical documents may be associated with the mobile device 12 is automatically transferred from the mobile device 12 to other devices along notifying the users or devices that files have been updated, further it is noted that Mohanty supports automated rules that synchronize the file changed both by mobile or client device(s) and order entry device, thereby maintains modified or updated content of the file);

It is however, noted that Mohanty does not teach “determine that the server system is not in communication with a second client device associated with the user”

“store the copy of the first file on the server system”

“automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device,; responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device”, although Mohanty teaches logical documents are stored, copied, distributed on a selected network devices connected in an networking environment (fig 1, Abstract).

On the other hand, Sigurdsson teaches “determine that the server system is not in communication with a second client device associated with the user” (0027, 0031, line 6-9, line 8-15, fig 4, 0051, 0061 - Sigurdsson teaches client/server architecture sharing and synchronizing content, in a particular situation, server 106 temporarily storing content in client X from any clients 102,104,106 and if a particular client is offline when the first attempt is made to deliver new content to it, also prior art of Sigurdsson supports server fig 1, element 106 provides temporary storage or drop-box to the user files, facilitate sharing information between user’s computers by storing the shared content if the target computer is offline, later, when the target computer comes online, the server element 106 may transmit the content to the target computer as detailed in 0027, note: Sigurdsson teaches detects when a client that is offline comes online and automatically detects that a particular client is offline as detailed in 0061, line 4-6). It is further noted that Sigurdsson supports whenever the client B (104) connects to the server (106), any missing claim A content 108 is copied automatically to the Client B (104) as shown element 118 (0031, line 6-9)

Sigurdsson teaches “store the copy of the first file on the server system” (0028, fig 1 - Claim A content 108 that includes a copy of the user’s file and sent automatically to the server 106 to store)

“automatically transfer, over a network, (fig 1, 0026 – Sigurdsson teaches exchange of content between computer devices, particularly files or content are automatically extracted and transmitted) the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device” (fig 5, 0052-0053,0064 – Sigurdsson teaches synchronizing

content among client devices including performing files edit and save document and updating the index to reflect the new saved version of the document as detailed in 0053, line 1-3, as such index makes the file(s) easily locatable on the client) responsive to (i) resuming communication with the second client device (fig 4, fig 6, 0061-0062 – Sugurdsson teaches sharing and synchronizing file content when a client that is offline comes online ie., resuming communication with other client device(s) and (ii) receiving the copy of the first file from the first client device” (fig 6, 0065 – Sugurdsson teaches file content activity between first client and the second client, the content including copy of the document as well as metadata that describes the type of data received)

It would have been obvious to one of the ordinary skill in the art at the time of applicant’s invention to incorporate receiving an event indicating an action associated with the first file and generating metadata to associate with the content of the Sigurdsson et al., into managing logical documents to be stored, copies, distributed on selected network devices of Mohanty because both Mohanty, Sigurdsson teaches managing file content that including receiving and transmitting in a network environment (Mohanty: Abstract, fig 1; Sigurdsson: 1, Abstract), and both Mohanty, Sigurdsson supports synchronization of files (Mohanty: 0008; Sigurdsson: fig 1, 0026, line 1-2) and they both are from the same field of endeavor. Because both Mohanty, Sigurdsson teaches synchronization of file content in an network environment, that would have users of Mohanty to substitute and/or modify one method over the other specifically automatically receiving content associated with the metadata, while priority algorithm used by each of the clients to determine when to transmit content from particular client

to the server or another client (Sigurdsson 0058, line 29-32), further allows sharing and synchronizing file content when a client that is offline comes online (Sigurdsson 0061, line 1-4) , thereby improving exchanging accessed files between multiple computers in a network environment (Signurdsson: 0005,0014)

8. As to Claim 2,13, Mohanty teaches wherein the computer program instructions, when executed, cause the server system to(fig 1A-1B)

“store the copy of the first file to a memory device associated with the server system” (page 3, 0027, fig 1A-1B).

On the other hand, Sigurdsson teaches “copy of the first file is stored on the memory device associated with the server system ” (0028, fig 1 - Claint A content 108 that includes a copy of the user’s file and sent automatically to the server 106 to store) “responsive to determining that the server system is not in communication with the second client device (0027, line 8-15, fig 4, 0051, Sigurdsson teaches client/server architecture sharing and synchronizing content, in a particular situation, server 106 temporarily storing content in client X from any clients 102,104,106 and if a particular client is offline when the first attempt is made to deliver new content to it, also prior art of Sigurdsson supports server fig 1, element 106 provides temporary storage or drop-box to the user files , facilitate sharing information between user’s computers by storing the shared content if the target computer is offline, later, when the target computer comes online, the server element 106 may transmit the content to the target computer as detailed in 0027, note: Sigurdsson teaches detects when a client that is offline comes online and automatically detects that a particular client is offline as detailed in 0061, line 4-6); and

automatically transfer the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, (fig 5, 0052-0053,0064 – Sugurdsson teaches synchronizing content among client devices including performing files edit and save document and updating the index to reflect the new saved version of the document as detailed in 0053, line 1-3, as such index makes the file(s) easily locatable on the client) responsive to (i) resuming communication with the second client device (fig 4, fig 6, 0061-0062 – Sugurdsson teaches sharing and synchronizing file content when a client that is offline comes online ie., resuming communication with other client device(s) and (ii) receiving the copy of the first file from the first client device (fig 6, 0065 – Sugurdsson teaches file content activity between first client and the second client, the content including copy of the document as well as metadata that describes the type of data received).

9. As to Claim 3,15,19, Sugurdsson teaches “wherein the computer program instructions, when executed, cause the server system to” (0109):

“receive, from the first client device” (fig 1, 0028, line 1-4, Sugurdsson teaches client A receives content), first metadata associated with the version of the first file that is generated from the user modifying the content of the first file (0007,0034, line 8-10,0053-0054 – Sugurdsson teaches each content associated with respective metadata for example transmitting and receiving the file content and metadata in a client server network environment, and the metadata describes the content such as time stamp, also metadata describing the file and the time and tracking the content, further metadata describes type of data, version of the file) ;” the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file (0058, line 15-

24 – Sugurdsson teaches assigning priority to the data items and/or files ie., server first processing higher priority, lower priority data items or files later and the priorities are based on attributes such as size, type or age and like); and

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device (0059-0060 – Sugurdsson teaches priority algorithm or priority formula that determines overall priority of the data items automatically sharing between client and server i.e, depending on available bandwidth on the clients and on the servers as detailed in 0060)

10. As to Claim 4,16,20, Sugurdsson teaches “wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration (0058-0060 – Sugurdsson teaches both assigning higher priority and the lower priority to the data files)

11. As to Claim 5, Mohanty, Sugurdsson teaches “wherein availability of the version of the first file is presented at the second client device based on the first metadata” (Mohanty page 5, 0047; Sugurdsson: 0034).

12. As to Claim 6, the combination of Mohanty, Sugurdsson teaches wherein the computer program instructions, when executed, cause the server system to (Mohanty 0072-0073; Sugurdsson:0106-0107)

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being a version of the second file that is generated from the user modifying the content of the second file (Mohanty :page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3,fig 5).

On the other hand, Sugurdsson teaches “determine that the server system is in communication with the first client device associated with the user” (Sigurdsson supports server fig 1, element 106 provides temporary storage or drop-box to the user files , facilitate sharing information between user’s computers by storing the shared content if the target computer is offline, later, when the target computer comes online, the server element 106 may transmit the content to the target computer as detailed in 0027, note: Sigurdsson teaches detects when a client that is offline comes online and automatically detects that a particular client is offline as detailed in 0061, line 4-6); and

“automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to” (fig 5, 0052-0053,0064 – Sugurdsson teaches synchronizing content among client devices including performing files edit and save document and updating the index to reflect the new saved version of the document as detailed in 0053, line 1-3, as such index makes the file(s) easily locatable on the client).

(i) determining that the server system is in communication with the first client device (periodically perform a pull request: fig 4, fig 6, 0027,0033, 0061-0062- Sugurdsson supports online communication with the client devices, also supports offline communication, further extracted file content including saved, accessed or modified as detailed in 0033) and (ii) receiving the copy of the first file from the second client device (0035,0037) .

13. As to Claim 7, the combination of Mohanty, Sigurdsson teaches wherein the computer program instructions, when executed, cause the server system to (Mohanty 0072-0073; Sugurdsson:0106-0107)

“periodically perform a pull request, wherein the copy of the first file is automatically received from the first client device responsive to (i) the pull request (Sigurdsson: 0046) and (ii) the user modifying the content of the first file stored on the first client device (Mohanty : fig 2, fig 5, page 6, 0053-0054; Sugurdsson: 0033 – timestamp specifies file content modified and/or updated).

14. As to Claim 8, the combination of Mohanty, Sigurdsson teaches “wherein the copy of the first file is automatically received from the first client device responsive (Sigurdsson :fig 5, 0052-0053,0064) to (i) a push request of the first client device (Sigurdsson: 0046) and (ii) the user modifying the content of the first file stored on the first client device (Mohanty : fig 2, fig 5, page 6, 0053-0054; Sugurdsson: 0033 – timestamp specifies file content modified and/or updated).

15. As to Claim 14, Sigurdsson teaches “storing, by the server system, the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server system (0028, fig 1 - Claim A content 108 that includes a copy of the user’s file and sent automatically to the server 106 to store). Sigurdsson teaches “responsive to initially determining that the server system is not in communication with the second client device (0027, line 8-15, fig 4, 0051);.

16. ***Claim(s) 9-11,17 are rejected under 35 U.S.C. 103(a) unpatentable over Mohanty, US Pub. No. 2007/0180084 filed on Feb 2006, published Aug 2007 Sigurdsson et al., (hereafter Sigurdsson), US Pub. No. 2007/0174246 filed on Jan 2006, further in view of Yeager et al., US Pub. No. 2004/0088348 published May,2004.***

17. As to Claim 9, Sigurdsson teaches “wherein the copy of the first file is automatically received from a first application at the first client device (Sigurdsson: fig 5, 0053, 0055-0056 – Sigurdsson teaches sharing content among client devices particularly peer-to-peer environment, content search application propagating to the second client)

It is however, noted that Mohanty, Sigurdsson do not teach “wherein the first application comprises a runtime environment for one or more mobile-agent objects”, although Mohanty teaches mobile devices connected in a network environment, and each mobile device handles logical document management files, as such mobile agent

is a software and data that is able to migrate or move from one computer to another and continue its execution on the destination computer for example as shown in fig 1, fig 9-10). On the other hand, Yeager teaches “wherein the first application comprises a runtime environment for one or more mobile-agent objects” (fig 35, 0082,0086 – Yeager teaches peer-to-peer networking using a mobile agent)

It would have been obvious to one of the ordinary skill in the art at the time of applicant’s invention to incorporate managing distribution of content using mobile agents in a network environment of Yeager et al., into users of Mohanty, Sigurdsson because that would have allowed users of Mohanty, Sigurdsson to collect information on distributor content stored on the peer nodes, while peer devices may serve as a client or server to other devices (0080), further mobile agent may be configured to search for the latest version of a particular data file (Yeager: 0192)

18. As to Claim 10, Yeager teaches “wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system” (fig 26, 27A-B, 0970, 0972).

19. As to Claim 11, Yeager teaches “wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system” (fig 45, 0188, 0969).

20. As to Claim 17, Sigurdsson teaches wherein the copy of the first file is automatically received from a first application at the first client device, (Sigurdsson: fig 5, 0052-0053) . On the other hand, wherein the first application comprises a runtime environment for one or more mobile-agent objects, (fig 35, 0082,0086 – Yeager teaches peer-to-peer networking using a mobile agent); and wherein the first application is configured to create a first mobile object, and the first mobile object is configured to create a proxy object at the server system and to provide the copy of the first file to the proxy object (fig 26, 27A-B, 0970, 0972).

Conclusion

The prior art made of record

- | | | |
|----|-------------|--------------|
| a. | US Pub. No. | 2007/0180084 |
| b. | US Pub. No. | 2007/0174246 |
| c. | US Pub. No. | 2004/0088348 |

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gorney, Boris, can be reached on (571) 270- 5626. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

/Srirama Channavajjala/
Primary Examiner, Art Unit 2158

| | | | | |
|--|---------------------------------------|--|---|-------------|
| <i>Notice of References Cited</i> | Application/Control No. 16/361,641 | | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. | |
| | Examiner Srirama T Channavajjala | | Art Unit 2158 | Page 1 of 1 |

U.S. PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Name | CPC Classification | US Classification |
|---|---|--|-----------------|--------------------------|--------------------|-------------------|
| * | A | US-20070180084-A1 | 08-2007 | Mohanty; Subhashis | G06F11/1464 | 709/223 |
| * | B | US-20070174246-A1 | 07-2007 | Sigurdsson; Johann Tomas | G06F16/1787 | 1/1 |
| * | C | US-20040088348-A1 | 05-2004 | Yeager, William J. | H04L67/1068 | 709/202 |
| * | D | US-20070239725-A1 | 10-2007 | Bhat; Sudin | H04L67/1095 | 1/1 |
| * | E | US-20050188051-A1 | 08-2005 | Sneh, Iftah | G06F9/44526 | 709/213 |
| | F | | | | | |
| | G | | | | | |
| | H | | | | | |
| | I | | | | | |
| | J | | | | | |
| | K | | | | | |
| | L | | | | | |
| | M | | | | | |


FOREIGN PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Country | Name | CPC Classification |
|---|---|--|-----------------|---------|------|--------------------|
| | N | | | | | |
| | O | | | | | |
| | P | | | | | |
| | Q | | | | | |
| | R | | | | | |
| | S | | | | | |
| | T | | | | | |

NON-PATENT DOCUMENTS

| * | | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|---|
| | U | |
| | V | |
| | W | |
| | X | |

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

| | | |
|---|--|---|
| <i>Search Notes</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |

| CPC - Searched* | | |
|--|------------|----------|
| Symbol | Date | Examiner |
| G06F 16/00;178;182;10;1873;1756;1824;1844;23 | 05/17/2019 | sc |
| G06F 8/71; G06F 11/1435;1448 | 05/17/2019 | sc |
| G06F16/273;275;10;178;128 | 11/02/2020 | SC |


| CPC Combination Sets - Searched* | | |
|----------------------------------|------|----------|
| Symbol | Date | Examiner |
| | | |

| US Classification - Searched* | | | |
|-------------------------------|----------|------|----------|
| Class | Subclass | Date | Examiner |
| | | | |

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| Search Notes | | |
|------------------------|------------|----------|
| Search Notes | Date | Examiner |
| Inventor search | 05/15/2019 | sc |
| PLUS search | 05/15/2019 | sc |
| IP.COM search attached | 05/15/2019 | sc |
| google search attached | 05/15/2019 | sc |
| EAST search attached | 08/29/2019 | sc |
| EAST search attached | 11/02/2020 | sc |
| google search attached | | sc |
| IP.COM search attached | | sc |

| | |
|--|--|
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2157 | |
|--|--|

| | | |
|---|--|---|
| <i>Search Notes</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2158 |

| Interference Search | | | |
|---------------------|-----------------------|------|----------|
| US Class/CPC Symbol | US Subclass/CPC Group | Date | Examiner |
| | | | |

| | |
|--|--|
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2157 | |
|--|--|

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| S3 | 2 | S1 and S2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:27 |
| S6 | 21 | S4 and (assign\$3 near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:29 |
| S8 | 2 | (priorit\$3 and file\$1 and synch\$5).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:32 |
| S9 | 13 | (file\$1 and version\$1 and synchroniz\$5).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:37 |
| S10 | 25 | (version\$1 and priorit\$3 and file\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:43 |
| S11 | 1 | S10 and synchroniz\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:44 |
| S12 | 7 | (receiv\$3 near5 copy near5 file\$1) and (second near5 device) and (automatic near5 transfer\$4) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:49 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| S13 | 7 | (receiv\$3 near5 copy near5 file\$1) and (second near5 device) and (automatic near5 transfer\$4) and version\$1 and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:50 |
| S14 | 39 | (file\$1 near5 version\$1) and (automatic near5 transfer\$3) and (modify\$3 near5 file\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:55 |
| S15 | 4 | S14 and (second near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:56 |
| S16 | 4 | S15 and (priorit\$2 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 14:56 |
| S18 | 1 | (synchroniz\$3 and priorit\$3 and file\$1).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:08 |
| S19 | 21 | (synchroniz\$3 and priorit\$3 and file\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:09 |
| S21 | 2 | S19 and (file\$1 near5 transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:10 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| S22 | 21 | (synchroniz\$3 near5 file\$1) and (file\$1 near5 version\$1) and (copy adj5 file\$1) and (automatic near5 transfer\$3) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:21 |
| S24 | 19 | S22 and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:21 |
| S25 | 2 | S22 and priorit\$3 and (higher near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:22 |
| S30 | 2 | (version and management and file\$1 and synchroniz\$3).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:26 |
| S31 | 27 | (file\$1 and transfer\$3 ad device\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:29 |
| S34 | 1 | S31 and (file\$1 near5 metadata) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:30 |
| S35 | 10 | S1 and (automat\$3 near5 file\$1 near5 transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:32 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| S36 | 1 | S1 and (automat\$3 near5 file\$1 near5 transfer\$3) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:32 |
| S37 | 32 | S4 AND ((G06F16/10 OR H04L67/1095 OR H04L67/06 OR G06F16/128 OR G06F16/178).CPC.) and priority | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:36 |
| S38 | 9 | S4 AND ((G06F16/10 OR H04L67/1095 OR H04L67/06 OR G06F16/128 OR G06F16/178).CPC.) and priority and (higher near5 priority) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:36 |
| S39 | 3 | S4 AND ((G06F16/10 OR H04L67/1095 OR H04L67/06 OR G06F16/128 OR G06F16/178).CPC.) and priority and (higher near5 priority) and metadata | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:36 |
| S40 | 8 | S26 and (synchroniz\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 15:38 |
| S43 | 9 | S26 and (synchron\$4 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 16:09 |
| S44 | 1 | S26 and (synchron\$4 near5 file\$1) and (file\$1 near5 priori\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 16:10 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| S45 | 2 | S26 and (priorit\$2 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 16:18 |
| S49 | 20 | (synch\$6 and priorit\$2 and file\$1).ab. and @Py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 16:19 |
| S55 | 13 | S54 and (automat\$3 near5 transfer\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 16:57 |
| S56 | 3 | S54 and (automat\$3 near5 transfer\$3 near5 file\$1) and (file\$1 near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/26 16:58 |

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L2 | 4 | 1 and (mobile near5 device\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 09:18 |
| L4 | 18 | 1 and (file\$1 near5 version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 09:23 |
| L5 | 2 | 1 and (file\$1 near5 version\$1) and ((replac\$3 or modify\$3) near5 version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 09:24 |
| L9 | 3 | 6 and network\$3 and automatical\$3 and transfer\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 09:29 |
| L10 | 2 | 6 and network\$3 and automatical\$3 and transfer\$3 and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 09:29 |
| L11 | 1 | 6 and offline and (receiv\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 09:38 |
| L27 | 1 | 20 and offline and resum\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 10:48 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|-----|----|------------------|
| L28 | 1 | 6 and offline | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 10:49 |
| L29 | 2 | "offline synchronization" and "resume synchronization" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 10:53 |
| L37 | 4 | "offline" and "resume" and version\$1 and "second device" and "synchronization" and "mobile devices" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:00 |
| L38 | 2 | "offline" and "resume" and version\$1 and "second device" and "synchronization" and "mobile devices" and "files priority" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:01 |
| L39 | 3 | "automated file transfer" and "synchronization" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:16 |
| L41 | 1 | 40 and "server offline" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:20 |
| L42 | 8 | 40 and (mobile near5 device\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:27 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L43 | 7 | (transfer\$3 and version\$1 and copies and synchroniz\$5).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:33 |
| L45 | 0 | 43 and offline and resum\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:34 |
| L48 | 17 | 6 AND ((G06F9/44505 OR H04M1/72525 OR H04M1/72563 OR H04W8/18 OR H04L51/22 OR H04L51/38 OR G09B5/065 OR H04L2209/80 OR H04L9/0827 OR G06F16/182 OR G06F16/273 OR G06F16/278 OR G06F19/3418 OR G06F19/3456 OR G06F1/266 OR G06Q10/10 OR G06Q50/22 OR G10H1/0008 OR G10H1/0066 OR G10H2230/021 OR H04L63/08 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/1095 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/06 OR H04W40/24 OR H04W56/00 OR H04W8/005).CPC.) and server\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:47 |
| L49 | 2 | 6 AND ((G06F9/44505 OR H04M1/72525 OR H04M1/72563 OR H04W8/18 OR H04L51/22 OR H04L51/38 OR G09B5/065 OR H04L2209/80 OR H04L9/0827 OR G06F16/182 OR G06F16/273 OR G06F16/278 OR G06F19/3418 OR G06F19/3456 OR G06F1/266 OR G06Q10/10 OR G06Q50/22 OR G10H1/0008 OR G10H1/0066 OR G10H2230/021 OR H04L63/08 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/1095 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/06 OR H04W40/24 OR H04W56/00 OR H04W8/005).CPC.) and server\$1 and connectivit\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:47 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|-----|----|------------------|
| L50 | 1 | 6 AND ((G06F9/44505 OR H04M1/72525 OR H04M1/72563 OR H04W8/18 OR H04L51/22 OR H04L51/38 OR G09B5/065 OR H04L2209/80 OR H04L9/0827 OR G06F16/182 OR G06F16/273 OR G06F16/278 OR G06F19/3418 OR G06F19/3456 OR G06F1/266 OR G06Q10/10 OR G06Q50/22 OR G10H1/0008 OR G10H1/0066 OR G10H2230/021 OR H04L63/08 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/1095 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/06 OR H04W40/24 OR H04W56/00 OR H04W8/005).CPC.) and server\$1 and connectivit\$2 and transfer\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:47 |
| L51 | 1 | 6 AND ((G06F9/44505 OR H04M1/72525 OR H04M1/72563 OR H04W8/18 OR H04L51/22 OR H04L51/38 OR G09B5/065 OR H04L2209/80 OR H04L9/0827 OR G06F16/182 OR G06F16/273 OR G06F16/278 OR G06F19/3418 OR G06F19/3456 OR G06F1/266 OR G06Q10/10 OR G06Q50/22 OR G10H1/0008 OR G10H1/0066 OR G10H2230/021 OR H04L63/08 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/1095 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/06 OR H04W40/24 OR H04W56/00 OR H04W8/005).CPC.) and server\$1 and connectivit\$2 and transfer\$3 and synchroniz\$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:47 |
| L55 | 2 | 53 and (offline near5 communication) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:57 |
| L57 | 3 | 56 and (resum\$3 near5 operation\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 11:59 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L62 | 26 | 56 AND ((G06F16/273 OR G11B27/105 OR G11B27/34 OR G06F16/4387 OR G06F16/4393 OR G06F16/637 OR G06F16/639 OR G06F16/9535 OR G06F21/10 OR G06F21/6236 OR G06F2216/01 OR G06F2221/2113 OR G06F2221/2137 OR G06Q20/1235 OR G06Q20/386 OR G06Q30/02 OR H04L2463/101 OR H04L29/06027 OR H04L51/04 OR H04L63/0263 OR H04L63/101 OR H04L63/105 OR H04L65/4084 OR H04L67/06 OR H04L67/22 OR H04L67/325 OR H04L67/327 OR H04N21/2541 OR H04N21/4126 OR H04N21/4331 OR H04N21/4622 OR H04N21/4627 OR H04N21/47214 OR H04N21/4788 OR H04N21/4825 OR G06F16/2322 OR G06F16/25 OR G06F16/275 OR G06F11/2071 OR G06F11/2097 OR G06F16/50 OR G06F16/68 OR G06F16/951 OR G11B27/10).CPC.) and server\$1 and client\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 12:08 |
| L65 | 2 | 56 AND ((G06F16/273 OR G11B27/105 OR G11B27/34 OR G06F16/4387 OR G06F16/4393 OR G06F16/637 OR G06F16/639 OR G06F16/9535 OR G06F21/10 OR G06F21/6236 OR G06F2216/01 OR G06F2221/2113 OR G06F2221/2137 OR G06Q20/1235 OR G06Q20/386 OR G06Q30/02 OR H04L2463/101 OR H04L29/06027 OR H04L51/04 OR H04L63/0263 OR H04L63/101 OR H04L63/105 OR H04L65/4084 OR H04L67/06 OR H04L67/22 OR H04L67/325 OR H04L67/327 OR H04N21/2541 OR H04N21/4126 OR H04N21/4331 OR H04N21/4622 OR H04N21/4627 OR H04N21/47214 OR H04N21/4788 OR H04N21/4825 OR G06F16/2322 OR G06F16/25 OR G06F16/275 OR G06F11/2071 OR G06F11/2097 OR G06F16/50 OR G06F16/68 OR G06F16/951 OR G11B27/10).CPC.) and server\$1 and client\$1 and (synchroniz\$3 near5 file\$1) and resum\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 12:09 |
| L66 | 6 | 20 and (temporar\$3 near5 stor\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:28 |

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L2 | 5 | 1 and (synchroniz\$3 with file\$1 with mobile) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:36 |
| L8 | 11 | 5 and (file\$1 with transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:40 |
| L9 | 5 | 5 and (file\$1 with transfer\$3) and priorit\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:40 |
| L10 | 2 | 5 and (file\$1 with transfer\$3) and priorit\$2 and offline | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:40 |
| L11 | 2 | 5 and (file\$1 with transfer\$3) and priorit\$2 and offline and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:41 |
| L12 | 46 | 1 and (second near5 client) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:41 |
| L13 | 3 | 1 and (second near5 client) and (transfer\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:42 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L15 | 2 | 1 and (second near5 client) and (transfer\$3 near5 file\$1) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:43 |
| L21 | 42 | 19 and 20 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:53 |
| L23 | 1 | 21 and (file\$1 with transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:53 |
| L25 | 10 | 21 and (trigger\$3 near5 event\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:56 |
| L26 | 10 | 21 and (trigger\$3 near5 event\$1) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:56 |
| L27 | 7 | 21 and (trigger\$3 near5 event\$1) and version\$1 and (temporarily near5 stor\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 14:57 |
| L30 | 40 | (synchronization and file\$1 and priorit\$3). ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 15:01 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L32 | 1 | 30 and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 15:02 |
| L33 | 8 | 20 and (higher near5 priority) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 15:22 |
| L34 | 5 | 20 and (higher near5 priority) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 15:22 |
| L36 | 14 | 20 and (synchroniz\$5 near5 priority) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 15:26 |
| L37 | 4 | 20 and (synchroniz\$5 near5 priority) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 15:27 |
| L40 | 29 | 20 and (file adj5 transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:26 |
| L41 | 11 | 20 and (file adj5 transfer\$3) and (synchroniz\$5 adj5 application) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:26 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L42 | 4 | 20 and (file adj5 transfer\$3) and (synchroniz\$5 adj5 application) and (replac\$3 adj5 version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:27 |
| L45 | 1 | 20 and (file adj5 transfer\$3) and (synchroniz\$5 adj5 application) and (replac\$3 adj5 version\$1) and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:28 |
| L46 | 22 | 20 and (server\$1 near5 offline) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:32 |
| L47 | 9 | 20 and (server\$1 near5 offline) and (local near5 stor\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:32 |
| L49 | 9 | 20 and (server\$1 near5 offline) and (local near5 stor\$3) and synchroniz\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:32 |
| L51 | 7 | 20 and (server\$1 near5 offline) and (local near5 stor\$3) and synchroniz\$3 and trigger\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:33 |
| L53 | 7 | 20 and (server\$1 near5 offline) and (local near5 stor\$3) and synchroniz\$3 and trigger\$3 and priorit\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:33 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L54 | 9 | (version\$1 and synchroniz\$3 and priorit\$2). ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:38 |
| L56 | 6 | 54 and server | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:39 |
| L57 | 6 | 54 and server and client | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:39 |
| L60 | 1 | 54 and server and client and automatic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 17:40 |
| L62 | 21 | (synchroniz\$3 and priorit\$2 and file\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 18:17 |
| L65 | 1 | 30 and (temporar\$3 near5 stor\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 18:33 |
| L67 | 6 | 5 and (server\$1 near5 stor\$3) and (transfer\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 18:35 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|-------------------|--|-----|----|------------------|
| L69 | 3 | "20020016818".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/30 18:39 |
|-----|---|-------------------|--|-----|----|------------------|

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|------------------|
| L2 | 5 | "server offline" and "resuming" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 07:59 |
| L6 | 39 | "server offline".ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 08:06 |
| L7 | 2 | 6 and resum\$3 and synchroniz\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 08:06 |
| L8 | 2 | 6 and resum\$3 and synchroniz\$3 and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 08:07 |
| L9 | 2 | 6 and resum\$3 and synchroniz\$3 and version\$1 copy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 08:07 |
| L10 | 2 | 6 and resum\$3 and synchroniz\$3 and version\$1 copy and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 08:07 |
| L11 | 3 | "20020083145".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 08:37 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L12 | 22 | "file version" and "assigning priority" and "synchronization" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 09:43 |
| L13 | 20 | "file version" and "assigning priority" and "synchronization" and "offline" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 09:43 |
| L14 | 20 | "file version" and "assigning priority" and "synchronization" and "offline" and "metadata" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 09:44 |
| L15 | 9 | "file version" and "assigning priority" and "synchronization" and "offline" and "metadata" and "transfer copy" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 09:45 |
| L19 | 21 | (synchroniz\$3 and priority and file\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 09:56 |
| L26 | 4 | (assign\$3 near5 priorit\$2) same (synchroniz\$3 near5 file\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:02 |
| L27 | 52 | (compar\$3 near5 priorit\$2 near5 file\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:03 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L28 | 10 | (compar\$3 near5 priorit\$2 near5 file\$1) and (file\$1 near5 version\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:04 |
| L29 | 2 | (compar\$3 near5 priorit\$2 near5 file\$1) and (file\$1 near5 version\$1) and metadata and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:04 |
| L32 | 12 | (compar\$3 near5 priorit\$2 near5 file\$1) and synchroniz\$3 and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:06 |
| L34 | 1 | (priorit\$2 and synchroniz\$3 and offline).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:17 |
| L37 | 5 | 33 and (file\$1 same version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:21 |
| L39 | 12 | "files priority" and "synchronizing" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:23 |
| L40 | 1 | "files priority" with "synchronizing" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:24 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L41 | 35 | (version near5 identifier\$1) and (copy\$3 near5 file\$1) and (file\$1 near5 priorit\$2) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:33 |
| L42 | 10 | (version near5 identifier\$1) and (copy\$3 near5 file\$1) and (file\$1 near5 priorit\$2) and synchroniz\$3 and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:33 |
| L43 | 2 | "file copy" and "versions" and "assigning priority" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 10:43 |
| L46 | 12 | "sharing files" and "assigning priority" and synchronization and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 11:00 |
| L47 | 12 | "sharing files" and "assigning priority" and synchroniz\$3 and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 11:01 |
| L48 | 12 | "sharing files" and "assigning priority" and synchroniz\$3 and version\$1 and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 11:01 |
| L54 | 11 | 49 and (shar\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 11:09 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| L56 | 34 | (synchroniz\$3 and priorit\$3).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 11:13 |
| L58 | 2 | 56 and file\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 11:14 |
| L61 | 6 | 27 AND ((G06F3/0689 OR G06F16/10 OR G06F3/0604 OR G06F3/0605 OR G06F3/0611 OR G06F3/0643 OR G06F3/0656 OR G06F3/0659 OR G06F12/126 OR G06F16/9574 OR G06F2209/5017 OR G06F9/5027 OR G06F9/546 OR H04L41/0806 OR H04L41/0853 OR H04L41/0859 OR H04L41/5064 OR H04L43/00 OR H04L45/7453 OR H04L47/10 OR H04L47/22 OR H04L49/10 OR H04L49/30 OR H04L63/0807 OR H04L67/325 OR H04L69/24 OR H05K1/0268 OR H05K3/0005 OR G01D21/00 OR G01D9/00 OR G05B23/0264 OR G05B23/0267 OR G06F11/1451 OR G06F11/1464 OR G06F12/023 OR G06F16/58 OR G06F16/90339 OR G06F21/606 OR G06F21/6218 OR G06F2212/2022 OR G06F2221/2107 OR G06F8/65 OR H04L49/90 OR H04L49/901 OR H04L63/1416 OR H04L67/02 OR H04L67/06 OR H04L67/2842).CPC.) and metadata | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 12:59 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L62 | 14 | 27 AND ((G06F3/0689 OR G06F16/10 OR G06F3/0604 OR G06F3/0605 OR G06F3/0611 OR G06F3/0643 OR G06F3/0656 OR G06F3/0659 OR G06F12/126 OR G06F16/9574 OR G06F2209/5017 OR G06F9/5027 OR G06F9/546 OR H04L41/0806 OR H04L41/0853 OR H04L41/0859 OR H04L41/5064 OR H04L43/00 OR H04L45/7453 OR H04L47/10 OR H04L47/22 OR H04L49/10 OR H04L49/30 OR H04L63/0807 OR H04L67/325 OR H04L69/24 OR H05K1/0268 OR H05K3/0005 OR G01D21/00 OR G01D9/00 OR G05B23/0264 OR G05B23/0267 OR G06F11/1451 OR G06F11/1464 OR G06F12/023 OR G06F16/58 OR G06F16/90339 OR G06F21/606 OR G06F21/6218 OR G06F2212/2022 OR G06F2221/2107 OR G06F8/65 OR H04L49/90 OR H04L49/901 OR H04L63/1416 OR H04L67/02 OR H04L67/06 OR H04L67/2842).CPC.) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:00 |
| L63 | 6 | 27 AND ((G06F3/0689 OR G06F16/10 OR G06F3/0604 OR G06F3/0605 OR G06F3/0611 OR G06F3/0643 OR G06F3/0656 OR G06F3/0659 OR G06F12/126 OR G06F16/9574 OR G06F2209/5017 OR G06F9/5027 OR G06F9/546 OR H04L41/0806 OR H04L41/0853 OR H04L41/0859 OR H04L41/5064 OR H04L43/00 OR H04L45/7453 OR H04L47/10 OR H04L47/22 OR H04L49/10 OR H04L49/30 OR H04L63/0807 OR H04L67/325 OR H04L69/24 OR H05K1/0268 OR H05K3/0005 OR G01D21/00 OR G01D9/00 OR G05B23/0264 OR G05B23/0267 OR G06F11/1451 OR G06F11/1464 OR G06F12/023 OR G06F16/58 OR G06F16/90339 OR G06F21/606 OR G06F21/6218 OR G06F2212/2022 OR G06F2221/2107 OR G06F8/65 OR H04L49/90 OR H04L49/901 OR H04L63/1416 OR H04L67/02 OR H04L67/06 OR H04L67/2842).CPC.) and version\$1 and threshold\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:00 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|-----|----|------------------|
| L64 | 6 | 27 AND ((G06F3/0689 OR G06F16/10 OR G06F3/0604 OR G06F3/0605 OR G06F3/0611 OR G06F3/0643 OR G06F3/0656 OR G06F3/0659 OR G06F12/126 OR G06F16/9574 OR G06F2209/5017 OR G06F9/5027 OR G06F9/546 OR H04L41/0806 OR H04L41/0853 OR H04L41/0859 OR H04L41/5064 OR H04L43/00 OR H04L45/7453 OR H04L47/10 OR H04L47/22 OR H04L49/10 OR H04L49/30 OR H04L63/0807 OR H04L67/325 OR H04L69/24 OR H05K1/0268 OR H05K3/0005 OR G01D21/00 OR G01D9/00 OR G05B23/0264 OR G05B23/0267 OR G06F11/1451 OR G06F11/1464 OR G06F12/023 OR G06F16/58 OR G06F16/90339 OR G06F21/606 OR G06F21/6218 OR G06F2212/2022 OR G06F2221/2107 OR G06F8/65 OR H04L49/90 OR H04L49/901 OR H04L63/1416 OR H04L67/02 OR H04L67/06 OR H04L67/2842).CPC.) and version\$1 and threshold\$3 and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:00 |
| L67 | 1 | 27 AND ((G06F3/0689 OR G06F16/10 OR G06F3/0604 OR G06F3/0605 OR G06F3/0611 OR G06F3/0643 OR G06F3/0656 OR G06F3/0659 OR G06F12/126 OR G06F16/9574 OR G06F2209/5017 OR G06F9/5027 OR G06F9/546 OR H04L41/0806 OR H04L41/0853 OR H04L41/0859 OR H04L41/5064 OR H04L43/00 OR H04L45/7453 OR H04L47/10 OR H04L47/22 OR H04L49/10 OR H04L49/30 OR H04L63/0807 OR H04L67/325 OR H04L69/24 OR H05K1/0268 OR H05K3/0005 OR G01D21/00 OR G01D9/00 OR G05B23/0264 OR G05B23/0267 OR G06F11/1451 OR G06F11/1464 OR G06F12/023 OR G06F16/58 OR G06F16/90339 OR G06F21/606 OR G06F21/6218 OR G06F2212/2022 OR G06F2221/2107 OR G06F8/65 OR H04L49/90 OR H04L49/901 OR H04L63/1416 OR H04L67/02 OR H04L67/06 OR H04L67/2842).CPC.) and version\$1 and threshold\$3 and priorit\$3 and mobile | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:01 |
| L69 | 38 | 59 and synchroniz\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:03 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|-----|----|------------------|
| L70 | 6 | 69 AND ((H04L69/329 OR H04L67/10 OR H04L29/06 OR H04L69/32 OR G06F11/3684 OR G06F9/4843 OR G06F11/3664 OR G06F11/1458 OR G06F11/1666 OR G06F11/20 OR G06F11/2015 OR G06F11/3688 OR G06F12/084 OR G06F12/0866 OR G06F12/1491 OR G06F16/10 OR G06F16/40 OR G06F16/9537 OR G06F16/958 OR G06F8/24 OR G06Q10/025 OR G06Q10/06 OR G06Q10/087 OR G06Q10/0875 OR H04L47/29 OR H04L47/745 OR H04L47/762 OR H04L49/90 OR H04L51/24 OR H04L51/26 OR H04N11/20 OR H04N21/4325).CPC.) and (high\$3 near5 priorit\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:05 |
| L71 | 4 | 69 AND ((H04L69/329 OR H04L67/10 OR H04L29/06 OR H04L69/32 OR G06F11/3684 OR G06F9/4843 OR G06F11/3664 OR G06F11/1458 OR G06F11/1666 OR G06F11/20 OR G06F11/2015 OR G06F11/3688 OR G06F12/084 OR G06F12/0866 OR G06F12/1491 OR G06F16/10 OR G06F16/40 OR G06F16/9537 OR G06F16/958 OR G06F8/24 OR G06Q10/025 OR G06Q10/06 OR G06Q10/087 OR G06Q10/0875 OR H04L47/29 OR H04L47/745 OR H04L47/762 OR H04L49/90 OR H04L51/24 OR H04L51/26 OR H04N11/20 OR H04N21/4325).CPC.) and (high\$3 near5 priorit\$2) and threshold\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:06 |
| L72 | 4 | 69 AND ((H04L69/329 OR H04L67/10 OR H04L29/06 OR H04L69/32 OR G06F11/3684 OR G06F9/4843 OR G06F11/3664 OR G06F11/1458 OR G06F11/1666 OR G06F11/20 OR G06F11/2015 OR G06F11/3688 OR G06F12/084 OR G06F12/0866 OR G06F12/1491 OR G06F16/10 OR G06F16/40 OR G06F16/9537 OR G06F16/958 OR G06F8/24 OR G06Q10/025 OR G06Q10/06 OR G06Q10/087 OR G06Q10/0875 OR H04L47/29 OR H04L47/745 OR H04L47/762 OR H04L49/90 OR H04L51/24 OR H04L51/26 OR H04N11/20 OR H04N21/4325).CPC.) and (high\$3 near5 priorit\$2) and threshold\$3 and file\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:06 |
| L73 | 3 | (priority adj5 file\$1) with (synchroniz\$3 adj5 file\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:07 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|-----------------------------------|--|-----|----|------------------|
| L77 | 1 | 76 and (file\$1 near5 version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/02 13:10 |
|-----|---|-----------------------------------|--|-----|----|------------------|

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|------------------|
| L2 | 10 | 1 and (user\$1 with modify\$3 with version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/28 11:46 |
| L3 | 10 | 1 and (user\$1 with modify\$3 with version\$1) and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/28 11:46 |
| L4 | 43 | (upon or resumption or resume) WITH SERVER WITH CLIENT WITH TRANSFER AND VERSION\$1 and synchroniz\$4 and @Py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/28 11:54 |
| L8 | 13 | 4 and priorit\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/28 11:56 |
| L9 | 4 | 4 and priorit\$3 and metadata | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/10/28 11:56 |

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|------------------|
| S2 | 50 | "mobile agent objects" and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:08 |
| S3 | 1 | S2 and "proxy objects" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:09 |
| S5 | 39 | "mobile agent objects" and @py<="2006" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:10 |
| S6 | 3 | S5 and (file adj5 server\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:10 |
| S8 | 1 | S5 and proxy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:11 |
| S9 | 2 | S2 and proxy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:15 |
| S10 | 18 | (mobile near5 agent\$1) and (synchroniz\$3 near5 file\$1) and proxy and @py<="2006" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:16 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|-----|----|------------------|
| S11 | 6 | S10 and runtime | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:17 |
| S12 | 6 | S10 and runtime and application\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:17 |
| S13 | 6 | S10 and runtime and application\$1 and client and device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:17 |
| S14 | 6 | S10 and runtime and application\$1 and client and device\$1 and file\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:17 |
| S15 | 6 | S10 and runtime and application\$1 and client and device\$1 and file\$1 and copy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:17 |
| S17 | 6 | S10 and runtime and application\$1 and client and device\$1 and file\$1 and copy and automatic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:18 |
| S18 | 5 | S10 and runtime and application\$1 and client and device\$1 and file\$1 and copy and automatic and (file adj5 copy) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:18 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|-----|----|------------------|
| S19 | 3 | S2 and (first adj5 application) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:22 |
| S20 | 14 | S2 and runtime | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:30 |
| S21 | 1 | S2 and runtime and proxy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:30 |
| S22 | 19 | (mobile near5 agent\$1) and (runtime near5 environment) and (proxy near5 object\$1) and @py<="2006" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:37 |
| S24 | 2 | S22 and (first near5 application) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2020/11/03 12:38 |



| | |
|--|--|
| <p>INTELLIGENT 2 PLUS Intelligent 2 Plus (2008)</p> <p>Download PDF FILE automatically transfer file copy metadata + 0 tracks 100% 1 files</p> <p>11 Relevance No. None None</p> <p>1 - 50 36,437 results</p> | <p>8. Systems, tools and methods for transferring files and metadata to and from a storage medium (2)</p> <p>Methods, tools and systems for efficiently and intuitively transferring files from client computers, via a network, to a centralized location for storage of the files as well as storage of metadata associated with the files in a manner such that the metadata as well as the files may be recalled in...</p> <p>CURRENT ASSIGNMENTS: ORNL CALIFORNIA (2) US20080220776 (US APPLICATIONS) (11-SEP-2008)</p> <p>A A A A A</p> |
| <p>9. System and method for preserving metadata in an electronic image file</p> <p>A method of preserving metadata in an electronic image file includes copying metadata into the image file from a metadata backup database after the metadata are retrieved from the electronic image file. An image file management application comprised of computer-readable instructions stored on a...</p> <p>CURRENT ASSIGNMENTS: ORNL PATENT OFFICE OF US US20080220854 (US PATENTS) (11-SEP-2008)</p> <p>A A A A A</p> | <p>10. System and method for processing metadata in an electronic image file</p> <p>A method of processing metadata in an electronic image file includes copying metadata into the image file from a metadata backup database after the metadata are removed from the electronic image file. An image file management application comprised of computer-readable instructions stored on a...</p> <p>CURRENT ASSIGNMENTS: ORNL PATENT OFFICE OF US US20080220854 (US APPLICATIONS) (11-SEP-2008)</p> <p>A A A A A</p> |
| <p>11. Copying storage units and related metadata to storage</p> <p>Provided are a method, system, and program for copying storage units and related metadata to storage. A user data storage location includes user data and a metadata storage location includes metadata data for the user data. A first type of copy operation is performed to copy a st least one specified...</p> <p>CURRENT ASSIGNMENTS: ORNL BUSINESS MACHINES CORP US20080220887 (US APPLICATIONS) (11-SEP-2008)</p> <p>A A A A A</p> | <p>12. A method of preserving metadata in an electronic image file</p> <p>A method of preserving metadata (101) in an electronic image file (100) includes copying metadata (101) into the image file (100) from a metadata backup database (102) after the metadata (101) are retrieved from the electronic image file (100). An image file management application (103) comprised of...</p> <p>CURRENT ASSIGNMENTS: ORNL US20080220941 (US PATENT APPLICATIONS) (11-SEP-2008)</p> <p>A A A A A</p> |
| <p>13. Automatic and dynamic provisioning of databases</p> <p>The strategies described in this specification can be used to provide databases that require bulk transfer of data within a distributed computing environment such as a grid. This strategy does not require manual intervention by the DBA, for example, to transfer tablespaces between operating systems...</p> <p>CURRENT ASSIGNMENTS: ORNL BNL CORP US20080220944 (US APPLICATIONS) (08-SEP-2008)</p> <p>A A A A A</p> | <p>14. Portable selective memory data exchange device</p> <p>A portable data exchange device including a storage memory for storing data, a USB interface, and a device controller having a file-selection-and-transfer mechanism is disclosed. Upon coupling of the presently disclosed data exchange device with a USB flash drive (UFD), the...</p> <p>CURRENT ASSIGNMENTS: WESTER DIGITAL CORP LTD</p> <p>A A A A A</p> |
| <p>INTELLIGENT 2 PLUS Intelligent 2 Plus (2008)</p> <p>Download PDF FILE automatically transfer file copy metadata + 0 tracks 100% 1 files</p> <p>47 Relevance No. None None</p> | <p>15. File server data processing system has data management configured so that data that is accessed relatively infrequently is stored off-server and represented on-server by meta-data , thereby speeding disaster recovery</p> <p>In order to improve a data processing system comprising a data network, a file server integrated into the data network with a server-specific data memory and with at least one primary file system in which data stored on the server data memory are stored, with regard to their reliability and access...</p> <p>CURRENT ASSIGNMENTS: ORNL IN IN IN NEW YORK US US20080221064 (US APPLICATIONS) (10-OCT-2008)</p> <p>A A A A A</p> |
| <p>INTELLIGENT 2 PLUS Intelligent 2 Plus (2008)</p> <p>Download PDF FILE automatically transfer file copy metadata + 0 tracks 100% 1 files</p> <p>47 Relevance No. None None</p> | <p>16. System and method of handling file metadata</p> <p>A network storage system comprises data storage, one or more file system APIs, and a metadata handler. The data storage can comprise file data and associated metadata. The file system APIs can be configured to read and write file data and metadata to and from the data storage. The metadata handler...</p> <p>CURRENT ASSIGNMENTS: CLOUDSTOR STORAGE INC US20080221036 (US APPLICATIONS) (02-NOV-2008)</p> <p>A A A A A</p> |
| <p>17. Distributing files from a single server to multiple clients via cyclical multivoting</p> <p>A method and system are disclosed for reliably distributing file data from a single server to multiple client computers using a cyclical multivoting approach. By "multivoting" it is meant that data is distributed repeatedly onto the network at a certain period. The server maintains metadata...</p> <p>CURRENT ASSIGNMENTS: MICROSOFT TECH LICENSING LLC US20080221055 (US APPLICATIONS) (04-DEC-2008)</p> <p>A A A A A</p> | <p>18. Copying and updating files</p> <p>Copied and source files are tracked so that authors of these documents can selectively update these files. Stale copied files can be eliminated. A control is provided to mediate copying of files among servers that have differing security policies. Metadata of a file being copied is downloaded from a...</p> <p>CURRENT ASSIGNMENTS: MICROSOFT TECH LICENSING LLC US20080221058 (US APPLICATIONS) (11-DEC-2008)</p> <p>A A A A A</p> |
| <p>19. Copying and updating files</p> <p>Copied and source files are tracked so that authors of these documents can selectively update these files. Stale copied files can be eliminated. A control is provided to mediate copying of files among servers that have differing security policies. Metadata of a file being copied is downloaded from a...</p> <p>CURRENT ASSIGNMENTS: MICROSOFT CORP US20080221058 (US APPLICATIONS) (11-DEC-2008)</p> <p>A A A A A</p> | <p>20. Continuous availability and efficient backup for externally referenced objects</p> <p>A managing system provides continuous availability of data files that are maintained at a file management system and linked to a database management system (DBMS) through a database data type, even while any particular file is being changed with DBMS's append or update operations. When a file is...</p> <p>CURRENT ASSIGNMENTS: BNL BUSINESS MACHINES CORP US20080221084 (US PATENTS) (4-JUL-2008)</p> <p>A A A A A</p> |
| <p>21. Systems and methods for using metadata to enhance data management operations</p> <p>Systems and methods for managing electronic data are disclosed. Various data management operations can be performed based on a metadata formed from metadata. Such metadata can be identified from an index of data transactions generated by a journaling module and obtained from their associated data...</p> <p>CURRENT ASSIGNMENTS: COMPACT SSI INC US20080221094 (US APPLICATIONS) (05-AUG-2008)</p> <p>A A A A A</p> | <p>22. Data processing unit</p> <p>In order to improve a data processing unit comprising a data network, a file server integrated into the data network and having a separate data memory for the server and executing at least one primary data file system, in which data files stored on the server data memory</p> |



SEARCH TERMS



priority files synchronizing

+ Synonym

+ Synonym

SEARCH FIELDS

Data - Priority -

YYYY-MM-DD ~ YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office - Language -

Status - Type -

Litigation -

About 143,178 results

Download

with Concepts

Side-by-side

Sort by - Relevance - Group by - None - Deduplicate by - Family - Results / page - 10 -

Prioritizing downloading of image files

US • [US9247321B2](#) • Michael A. Chan • Nexbit Systems Inc.

Priority 2013-04-21 • Filed 2014-04-14 • Granted 2015-04-02 • Published 2015-04-02

For example, if the data files are image files, the **priority sync** can select the images that have been viewed a particular number of times, images that have been viewed most recently, e.g., on another computing device, images that the user has indicated as important, or images that is likely to be ...

Prioritizing file synchronization in a distributed computing system

WO US TW • [US9365265B2](#) • Michael A. Chan • Pazar (Asia-Pacific) Pte. Ltd.

Priority 2013-03-21 • Filed 2014-03-18 • Granted 2018-05-08 • Published 2018-05-08

For example, if the data files are image files, the **priority sync** can select the images that have been viewed a particular number of times, images that have been viewed most recently, e.g., on another computing device, images that the user has indicated as important, or images that is likely to be ...

Automatic rules-based device synchronization

US • [US7647346B2](#) • Andrew L. Silverman • Microsoft Corporation

Priority 2005-03-29 • Filed 2005-03-29 • Granted 2010-01-12 • Published 2010-01-12

Automatic rules-based synchronization of digital files on a source device and a target device coupled to it. A source computer executes a synchronization engine for managing transfer of files from a source database to a target device coupled to the computer as a function of a defined storage ...

Remote data mirroring

WO EP US JP KR AU GB • [US7055559B2](#) • Moshe Yassai • Emc Corporation

Priority 1998-04-23 • Filed 2002-12-27 • Granted 2006-05-30 • Published 2006-05-30

Two data storage systems are interconnected by a data link for remote mirroring of data. Each volume of data is configured as local, primary in a remotely mirrored volume pair, or secondary in a remotely mirrored volume pair. Normally, a host computer directly accesses either a local or a primary ...

Conflict resolution, retry condition management, and handling of problem files ...

EP US • [US10599671B2](#) • Griffin Drisman • Box, Inc.

Priority 2018-01-17 • Filed 2014-01-17 • Granted 2020-03-24 • Published 2020-03-24

Embodiments of the present disclosure include systems and methods of conflict resolution, retry condition management and/or handling of problem files in the synchronization architecture of the cloud-based platform. One embodiment of the disclosed technology detects conflicts between incompatible ...

Selective synchronization of remotely stored content

US • [US9230106B2](#) • Derek Piaszeki • Citrix Systems, Inc.

Priority 2012-02-16 • Filed 2013-02-14 • Granted 2016-05-03 • Published 2016-05-03

Described herein are methods and systems for selectively synchronizing locally stored data with data stored in a cloud storage repository. A client application can synchronize a portion of the locally or remotely stored content by choosing to synchronize data that is frequently used, data that is ...

Application-level live synchronization across computing platforms including ...

US • [US10387265B2](#) • Parameswaram Kumarasamy • Cornerback Systems, Inc.

Priority 2015-12-23 • Filed 2016-12-09 • Granted 2019-06-20 • Published 2019-06-20

An illustrative "Live Synchronization" feature creates and maintains a ready standby "synchronized application" that is available to take over as a failover solution for a "primary" application that operates in a production environment, but will do so on a different computing platform (e.g., ...

Widget synchronization in accordance with synchronization preferences

EP US • [US10082144B2](#) • Jeffrey L. Robbin • Apple Inc.

Priority 2007-01-07 • Filed 2007-06-22 • Granted 2018-09-26 • Published 2018-09-26

Improved techniques and apparatus for managing data between a host device (e.g., host

Top

Rel

...

...

...

...

...

...

...



computer) and a client device. The data being managed can, for example, pertain to portable computer programs, such as widgets. The managing of the data thus can involve transfer of portable computer programs (e. ...

Prioritized Data Synchronization with Host Device

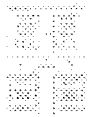


EP US AU • US20140214764A1 • Jeffrey L. Robbin • Apple Inc.

Priority 2007-01-07 • Filed 2014-01-13 • Published 2014-07-31

Improved techniques and apparatus for managing data between a host device (e.g., host computer) and a media device are disclosed. The data being managed can, for example, pertain to media data for media assets. The managing of the media data thus can involve transfer of media assets between the ...

Interface for resolving synchronization conflicts of application states



US • US20160251582 • Michael A. Chan • NextBit Systems Inc.

Priority 2012-10-02 • Filed 2014-09-30 • Granted 2016-02-23 • Published 2016-02-23

Technology is disclosed herein for resolving synchronization conflicts when synchronizing application state data between computing devices. According to at least one embodiment, a server detects a first set of application state data at a first computing device conflicting with a second set of ...

Next



About 143,179 results

[About](#)

[Send Feedback](#)

[Public Datasets](#)



SEARCH TERMS x

About 131,117 results

Download with Concepts Side-by-side

Sort by: Relevance • Group by: None • Deduplicate by: Family • Results / page 10 •

files transferring server clients x

+ Synonym

+ Synonym

SEARCH FIELDS

Date • Priority •

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

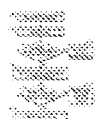
+ Assignee

Patent Office • Language •

Status • Type •

Litigation •

Method and apparatus for transferring files to clients using a peer-to-peer ...



WG EP US CN JP • US7345669B2 • Christopher Painter • Sony Corporation

Priority 2007-09-20 • Filed 2007-09-20 • Granted 2011-05-17 • Published 2011-05-17

A method and apparatus is provided for delivering a content file to a client over a packet-switched network. The method begins by determining a suitable throughput required to deliver the content file to the client. Next, the throughput available in a peer-to-peer network for delivering the ...

System and method for anonymous addressing of content on network peers and for ...



US • US9112876B2 • Sam Zaid • Sam Zaid

Priority 2009-08-04 • Filed 2009-08-04 • Granted 2015-06-16 • Published 2015-08-18

A system and method for efficient and private peer-to-peer file sharing consists of ascribing a uniquely identified and anonymous link (an "edgeline") to any file or set of files on a peer computer. The link is registered with a publishing server along with continuously updated connectivity ...

Scalable, high performance and highly available distributed storage system for ...



WG EP US AU • US20130254247A1 • Philip A. Lisiecki • Akamai Technologies, Inc

Priority 2007-04-02 • Filed 2013-05-20 • Published 2013-09-25

Similar: A method for content storage on behalf of participating content providers begins by having a given content provider identify content for storage. The content provider then uploads the content to a given storage site selected from a set of storage sites. Following upload, the content is replicated ...

Appending to files via server-side chunking and manifest manipulation



US • US9330498B2 • Michael Barton • Backspace Ua, Inc.

Priority 2011-03-08 • Filed 2011-12-28 • Granted 2016-04-05 • Published 2016-04-05

Similar: A segmented object storage system is an object storage system that divides files into a number of object segments, each segment corresponding to a portion of an object, and stores each segment individually in the storage system. The system also generates and stores a manifest file describing the ...

Accelerated data transfer using common prior data segments



WO US • US20160224431A1 • Robert D. Keith • Microsoft Technology Licensing, Llc

Priority 2006-09-22 • Filed 2016-04-11 • Published 2016-08-04

Similar: Accelerating data transfers is described herein. When a second computing system is requested to transfer a file to a first computing system, a data segment is sent to the first computing system instead of the entire file. The data segment is then compared to data stored within a data store on the ...

Indirection objects in a cloud storage system



WO US • US20160142512A1 • John A. Dickinson • Backspace Ua, Inc.

Priority 2012-05-16 • Filed 2015-11-09 • Published 2016-05-19

Similar: Several embodiments using indirection objects to organize data in a cloud storage system are disclosed. An indirection object stores associations to different variants or segments of an object. The indirection object receives requests for the objects and responds with the appropriate variant, ...

System and method of implementing an object storage infrastructure for cloud-



US • US9614212B2 • Sachin Shetty • Egnyte, Inc.

Priority 2011-12-07 • Filed 2016-08-12 • Granted 2017-04-04 • Published 2017-04-04

A method for storing objects in an object storage system includes the steps of establishing a network connection with a client over an inter-network, receiving an upload request indicating an object to be uploaded by the client, selecting at least two storage nodes on which the object will be ...

Applications for remote differential compression



US • US7640363B2 • Dan Teodoroski • Microsoft Corporation

Priority 2004-02-16 • Filed 2006-02-15 • Granted 2009-12-29 • Published 2009-12-29

Remote differential compression is integrated within applications. Objects are updated between two or more computing devices using remote differential compression (RDC) techniques such that required data transfers are minimized. An algorithm provides enhanced efficiencies for allowing the receiver ...

Method and system for managing distributed content and related metadata

FIG. 1A is a block diagram of a system for managing distributed content and related metadata.



US • [US20160224181](#) • [Tsun-Fung Huang](#) • [Intel Corporation](#)

Priority 2009-10-26 • Filed 2001-10-26 • Granted 2016-02-24 • Published 2016-02-24

A method for propagating a distribution command related to file system object changes in a network (100) having a plurality of network nodes comprising steps of, at each network node: creating a respective distribution map formed by distribution criteria for each node, wherein the distribution map ...

Method and system for providing a secure peer-to-peer file delivery network



US • [US7047406B2](#) • [Hrg Gregor Schleicher](#) • [Qurio Holdings, Inc.](#)

Priority 2001-08-01 • Filed 2001-08-01 • Granted 2006-08-16 • Published 2006-08-16

A method and system for electronically delivering files over a public network is disclosed. The network includes a plurality of computers including at least one server node and multiple client nodes. In a first aspect of the present invention, the method and system enable secure and reliable peer- ...

Next >



About 131,317 results

SEARCH TERMS

X

About 135,826 results

Download

With Concepts

Side-by-side

Sort by · Relevance · Group by · None · Deduplicate by · Family · Results / page · 10 ·

replace older version files X or

+ Synonym

+ Synonym

SEARCH FIELDS

Date · Priority ·

YYYY-MM-DD ~ YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office · Language ·

Status · Type ·

Litigation ·

Maintaining and updating software versions via hierarchy

US · [US9106556A95562](#) · Seta Sussayaret · Home Box Office, Inc.

Priority 2015-10-13 · Filed 2017-03-03 · Granted 2020-05-19 · Published 2020-05-19

The described technology is directed towards maintaining and using a version-based hierarchy of software resources (e.g., file system files) to return version-specific responses to clients. A client sends its version information with each data request, and gets back a response based upon that ...

Multi-model access to data

US · [US8065320B2](#) · Eric Sedlar · Oracle International Corporation

Priority 1999-08-05 · Filed 2003-05-16 · Granted 2011-11-22 · Published 2011-11-22

Techniques are provided for accessing data stored in a database. According to one technique, an application makes one or more calls to an operating system to access a file. The operating system includes routines that implement an operating system file system. The one or more calls are made to the ...

Method of collaboration using multiple editors or versions of a feature, and ...

WO EP US CN JP KR TW · [TW20075009](#) · 小露伯A · 微軟技術授權有限責任公司

Priority 2013-01-30 · Filed 2013-12-27 · Granted 2017-09-11 · Published 2017-09-11

A method for version cooperation, comprising the steps of: presenting a first version of a feature in a file at a client device; urging a merge service to request a modification of the file to merge a primary file. The primary file supports a second version of the feature, the second version of the ...

Application programming interface for content curation

WO EP US CN JP KR AU BR CA MX RU · [JP6624332B2](#) · グリゴロヴィチ , アレクサンドレ・ヴィ・マイクロソフトテクノロジー・ライセンシング・エルエルシー

Priority 2013-01-30 · Filed 2014-01-28 · Granted 2019-12-25 · Published 2019-12-25

Retrieving a first document, wherein the first document includes content blocks retrieved via at least two different addresses including at least a first address; Displaying a first view of the first document containing the content block, retrieved via the at least two different addresses;

Displaying web pages without downloading static files

EP US · [US926822B2](#) · Xin Zhou · Google Inc.

Priority 2012-03-05 · Filed 2012-09-14 · Granted 2015-02-23 · Published 2016-02-23

A computing device is configured to receive a configuration file. The configuration file includes at least one reference to a static file associated with a web page of a website. The static file is ranked as a most-downloaded static file, of a plurality of static files, by a provider of the ...

Storing differentials of files in a distributed blockchain

US · [US9121919B2](#) · Christopher Edward Struttman · ALTR Solutions, Inc.

Priority 2015-06-02 · Filed 2017-08-11 · Granted 2018-11-06 · Published 2018-11-06

Provided is a process including: receiving a request to write a new version of a document to a tamper-evident, immutable data repository; determining that the new version of the document is different from the previous version of the document, and in response to determining, storing a difference ...

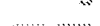
System and method for updating application archive files

US · [US9244673B2](#) · Paul William Chinn · Apple Inc.

Priority 2012-06-08 · Filed 2012-09-06 · Granted 2016-01-26 · Published 2016-01-26

Systems, methods, and non-transitory computer-readable storage media for updating software applications installed on client computing devices, creating a manifest file describing the differences between multiple versions of application archives present in an application distribution system, and ...

Utilizing a tree-structure to segment and distribute files across a series of ...

US · [US20180205852A1](#) · Christopher Edward Struttman · ALTR Solutions, Inc.



Priority 2015-06-02 • Filed 2018-03-10 • Published 2018-07-19

Provided is a process including: receiving with one or more processors, a first request to store a record from a computing entity; encoding, with one or more processors, the record in a first plurality of segments; arranging, with one or more processors, the first plurality of segments in ..

Database-managed file system



US • US200278282 • Eric Seidler • Oracle International Corporation

Priority 1999-03-19 • Filed 2004-11-01 • Granted 2009-09-10 • Published 2009-03-10

Techniques are provided for performing file operations. According to one technique, a file system interface is exposed to applications. The file system interface includes routines for saving and retrieving files. Calls to perform a plurality of file operations are received through the file system ...

SEARCH TERMS

X

search countries X or + Synonym

+ Synonym

SEARCH FIELDS

Date · Priority ·

YYYY-MM-DD -- YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office · Language ·

Status · Type ·

Litigation ·

About 135,808 results

Download with Concepts Side by side

Sort by · Relevance · Group by · None · Deduplicate by · Family · Results / page · 10 ·

System and method for providing preferred country biasing of search results

WO EP US JP AU BR CA MX NZ · CA2528885C · Vineet Gupta · Google Inc.

Priority 2002-05-16 · Filed 2004-06-16 · Granted 2012-08-14 · Published 2012-08-14

A system (10) and method (80) for providing preferred country (39) ordering of search results (37) is described. A search query (36) describing potentially retrievable information (47) provided in a plurality of search result countries (39) is received (81). A search (82) is executed by evaluating ...

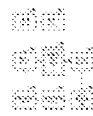
Ordering of search results based on language and/or country of the search ...

US · US8306272B2 · Vineet Gupta · Google Inc.

Priority 2003-03-21 · Filed 2008-10-21 · Granted 2012-11-06 · Published 2012-11-06

receive a search query, perform a search based on the search query to identify search results in a plurality of search result languages and from a plurality of search result countries, identify a particular language for the search results based on weighing characteristics of the search query, ...

Refining search results



US · US9597259B1 · Hyung-Jin Kim · Google Inc.

Priority 2009-08-21 · Filed 2013-07-29 · Granted 2017-07-04 · Published 2017-07-04

A computer-implemented method for processing query information includes receiving data representative of a search query from a user search session. The method also includes identifying a plurality of search results based upon the search query. Each search result is associated with a plurality of ...

Method of frequency search



WO EP US · US8923857B2 · Muhammad Kazmi · Telefonaktiebolaget L.M. Ericsson (Publ)

Priority 2009-04-20 · Filed 2009-04-20 · Granted 2014-12-30 · Published 2014-12-30

In a User Equipment, frequency search is performed using the physical location (e.g. GPS position) and using information about the allocation of frequency bands and the radio access technologies used in these bands in different regions or countries. Hereby, frequency searching can be reduced to ...

System and method for detecting, collecting, analyzing, and communicating event ...

WO EP US · US10055582B2 · Peter C. Li · Georgetown University

Priority 2008-02-25 · Filed 2014-09-23 · Granted 2018-08-21 · Published 2018-08-21

A system and method involves detecting operational social disruptive events on a global scale, assigning disease event staging and warnings to express data in more simplistic terms, modeling data in conjunction with linguistics analysis to establish responsive actions, generating visualization and ...

System and method for detecting, collecting, analyzing, and communicating event ...

US · US10503347B2 · Ahmed A. Humayun · Georgetown University

Priority 2008-02-25 · Filed 2017-07-27 · Granted 2019-12-10 · Published 2019-12-10

A system and method involves detecting operational social disruptive events on a global scale, assigning disease or non-disease event staging and warnings to express data in more simplistic terms, modeling data in conjunction with linguistics analysis to establish responsive actions, generating ...

Computerized way

WO EP US CN JP HK IL · JP6391628B2 · ユアフレコ・ブランドソーシャルメディア

Priority 2012-04-11 · Filed 2014-04-09 · Granted 2019-03-27 · Published 2019-03-27

A computerized way of protecting the brand owner's brand name, (A) crawling a global communications network to identify and collect data about websites that may exploit the brand name; (B) For each website that may abuse the brand name, at least one of (i) the content of the website and (ii) data ...

System and method for detecting, collecting, analyzing, and communicating event ...



US · US8861940B2 · Peter C. Li · Georgetown University

Priority 2008-08-28 · Filed 2009-12-02 · Granted 2014-11-04 · Published 2014-11-04

A system and method involves detecting operational social disruptive events on a global scale, assigning disease event staging and warnings to express data in more simplistic terms, modeling data in conjunction with linguistics analysis to establish responsive actions, generating visualization and ...

An interactive organizational decision-making and compliance facilitation ...



WO US • [1620160129457A1](#) • Matthew Scott Peeler • Broz Friedberg, LLC

Priority 2012-11-02 • Filed 2013-11-01 • Published 2014-05-08

Systems and methods are disclosed for facilitation of enterprise compliance with managed rules or policies, including the use of and interactive compliance application including a decision tree structure with decision nodes, wherein an enterprise user may answer one or more specific questions and ...

System and method for detecting, collecting, analyzing, and communicating event ...



US • [2009/0299248A2](#) • Peter C. Li • Georgetown University

Priority 2008-02-28 • Filed 2011-07-27 • Granted 2016-12-07 • Published 2016-12-27

A system and method involves detecting operational social disruptive events on a global scale, assigning event staging and warnings to express data in more simplistic terms, modeling data in conjunction with linguistics analysis to establish responsive actions, generating visualization and ...

Next > >> About 135,878 results



SEARCH TERMS

X

synchronizing files metadata X or
+ Synonym

+ Synonym

SEARCH FIELDS

Date · Priority ·

2007-01-01 -- 2007-12-31

+ Inventor

+ Assignee

Patent Office · Language ·

Status · Type ·

Litigation ·

About 7,298 results

Download

with Concepts

Side-by-side

Sort by · Relevance · Group by · None · Deduplicate by · Family · Results / page · 10 ·

File transmission system and file management method thereof



US KR · KR20090048295A · 박세형 · 삼성전자주식회사

Priority 2007-11-12 · Filed 2007-11-12 · Published 2009-05-15

The present invention relates to a file transfer system and a file management method for managing a file that has a deletion history when the file is transferred between devices so that a user can confirm whether or not to download the unwanted file. To this end, the present invention provides a ...

System for automatic shadowing of encrypted data and file directory structures

WO US GB · DE1120080029471B · Dennis B. Butchelor · Rebit, Inc., Longmont

Priority 2007-10-31 · Filed 2008-10-31 · Published 2010-09-02

A data shadowing system for automatically backing up data written to the memories of a plurality of monitored computer systems and selectively retrieving these data for recovery of the memory, comprising: a memory module device coupled to a plurality of monitored computer systems via a ...

Remote File Virtualization in a Switched File System



WO US · US20090094252A1 · Thomas K. Wong · Altuna Systems, Inc.

Priority 2007-05-25 · Filed 2008-05-23 · Published 2009-04-09

A plurality of network file manager switches interoperate to provide remote file virtualization. Copies of file data and/or metadata are maintained at a central site and at one or more remote sites. The network file manager switch at the remote site may satisfy certain client requests locally ...

Backup and recovery of distributed storage areas



US · US8212866B1 · Peter Armor · Emc Corporation

Priority 2007-06-09 · Filed 2007-06-09 · Granted 2014-04-29 · Published 2014-04-29

A system and method for centralized backup and recovery of enterprise content management systems comprises a plurality of distributed heterogeneous content systems comprising distributed content servers having storage areas for managed content. Backup comprises querying the content servers ...

Keyword-based content management



WO US · US20080270466A1 · Tan Quang Sui · Memeo, Inc.

Priority 2007-04-16 · Filed 2008-04-16 · Published 2008-10-30

A method, implementable in a system coupled to a network, includes accessing a first portion of a memory device coupled to the network. The first portion has stored thereon a plurality of data sets. A plurality of discrete alphanumeric strings associated with each data set of the plurality is ...

Data management apparatus and method, and program



US JP · JP5121234B2 · 敬園 株式会社

Priority 2007-01-12 · Filed 2007-01-12 · Granted 2013-01-16 · Published 2013-01-16

A data management device for managing objects in a content directory service connected via a network. Designating means for designating a registration destination of a second object obtained by duplicating the first object in the content directory service; Setting means for setting object ...

Offsite computer file backup system providing rapid recovery and method thereof

US · US7668888B1 · Jim Carroll · Jim Carroll

Priority 2007-03-15 · Filed 2007-03-15 · Granted 2010-02-23 · Published 2010-02-23

A computer file backup system and method are provided. An onsite backup device is in communication with the primary device and includes a first backup copy of the files. The primary device includes a first instance of file modification detection software. The onsite backup device includes a first ...

Method of and system for enhanced data storage



US · US8761566B2 · Robert O. Keith, Jr. · Maxsp Corporation

Priority 2007-10-26 · Filed 2013-03-13 · Granted 2014-06-24 · Published 2014-06-24

What is claimed is: 1. A method of providing enhanced data storage, comprising: a. storing a set of compressed base images and an uncompressed base image on a main storage; b. writing a new base image to an additional storage; c. compressing the uncompressed base image based on the ...

new base image;

Image providing apparatus and image providing program



JP • JP4255165B2 • 光洋 興業 • 日本電信電話株式会社

Priority 2007-09-05 • Filed 2007-09-05 • Granted 2011-08-24 • Published 2011-08-24

An image providing device for searching for an image satisfying a user's browsing request from images taken at a specific location and providing the image to the user, An input means for inputting a moving image or a still image taken at the place and storing it in the storage means; A first ...

Arrangement for synchronizing media files with portable devices



US • US20140355508A1 • Dennis Killeen • Microsoft Corporation

Priority 2007-11-13 • Filed 2014-08-25 • Published 2014-12-11

Arrangements are provided which improve the efficiency of the synchronization process. The same ensure that synchronizations of large quantities of content can be completed with a minimum of delay. One method prioritizes the various tasks that are to be performed prior to synchronization. Another ...

| | | |
|---|---|---|
| Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed | | PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce |
| Electronic Petition Request | TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT | |
| Application Number | 16361641 | |
| Filing Date | 22-Mar-2019 | |
| First Named Inventor | Michael MANZANO | |
| Attorney Docket Number | 023027-0504053 | |
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | |
| <input checked="" type="checkbox"/> Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action <input checked="" type="checkbox"/> This electronic Terminal Disclaimer is not being used for a Joint Research Agreement. | | |
| Owner | Percent Interest | |
| TOPIA TECHNOLOGY, INC. | 100% | |
| <p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>10289607 10642787 10754823</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. | | |

☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

☒ Small Entity

☐ Micro Entity

☐ Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 65473

☐ A sole inventor

☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

☐ A joint inventor; all of whom are signing this request

| | |
|-----------|-----------------|
| Signature | /Ngai B. Zhang/ |
| Name | Ngai B. Zhang |

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

| | | | | |
|--|---|-----------------|---------------|-----------------------------|
| Application Number: | 16361641 | | | |
| Filing Date: | 22-Mar-2019 | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Ngai Bing Zhang/Sarah Clarke | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Small Entity | | | | |
| Filing Fees for Utility under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| STATUTORY OR TERMINAL DISCLAIMER | 2814 | 1 | 170 | 170 |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Post-Allowance-and-Post-Issuance: | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: | | | | |
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 170 |

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16361641

Filing Date: 22-Mar-2019

Applicant/Patent under Reexamination: MANZANO

Electronic Terminal Disclaimer filed on October 23, 2020

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 40934805 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Sarah Clarke |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 23-OCT-2020 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 17:52:23 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|------------------|
| Submitted with Payment | yes |
| Payment Type | DA |
| Payment was successfully received in RAM | \$ 170 |
| RAM confirmation Number | E20200MH52209677 |
| Deposit Account | 033975 |
| Authorized User | Sarah Clarke |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
37 CFR 1.21 (Miscellaneous fees and charges)

| File Listing: | | | | | |
|--|--|--------------------------|--|------------------|------------------|
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | Terminal Disclaimer-Filed (Electronic) | eTerminal-Disclaimer.pdf | 33996 | no | 2 |
| | | | 2cb8fcc76b5af339160a7a0c7855c148520484da | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30502 | no | 2 |
| | | | 9cf103937483b6c70a1e9dc25837815d262b91dd | | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 64498 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

PLUS Search Results for S/N 16361641, Searched Wed Sep 09 11:42:29 EDT 2020

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

| | | |
|------------|------------|------------|
| 5867112 99 | 5634056 98 | 6061693 98 |
| 5699428 99 | 5646866 98 | 6073222 98 |
| 5796825 99 | 5657470 98 | |
| 5630081 99 | 5678042 98 | |
| 5438671 99 | 5680617 98 | |
| 5680609 99 | 5684991 98 | |
| 5819276 99 | 5696975 98 | |
| 6243766 99 | 5706454 98 | |
| 4757533 98 | 5715455 98 | |
| 5388257 98 | 5721897 98 | |
| 5638521 98 | 5732266 98 | |
| 5671420 98 | 5734882 98 | |
| 5920700 98 | 5734901 98 | |
| 6055543 98 | 5778380 98 | |
| 6216175 98 | 5792972 98 | |
| 6216175 98 | 5809498 98 | |
| 4914587 98 | 5809138 98 | |
| 5496071 98 | 5819296 98 | |
| 5574906 98 | 5822524 98 | |
| 5579479 98 | 5832100 98 | |
| 5627996 98 | 5835953 98 | |
| 5634052 98 | 5835759 98 | |
| 5710878 98 | 5845273 98 | |
| 5764890 98 | 5857072 98 | |
| 5813017 98 | 5860004 98 | |
| 5892825 98 | 5864870 98 | |
| 5913215 98 | 5864853 98 | |
| 5920868 98 | 5870624 98 | |
| 5937164 98 | 5875110 98 | |
| 5935210 98 | 5878218 98 | |
| 6014696 98 | 5892954 98 | |
| 6047060 98 | 5893116 98 | |
| 6070175 98 | 5913218 98 | |
| 6122635 98 | 5907672 98 | |
| 6122629 98 | 5933609 98 | |
| 6230288 98 | 5946677 98 | |
| 4290114 98 | 5948057 98 | |
| 4763252 98 | 5953720 98 | |
| 4775969 98 | 5958051 98 | |
| 4847619 98 | 5987239 98 | |
| 4862345 98 | 5988899 98 | |
| 4870415 98 | 6006195 98 | |
| 4994971 98 | 6014668 98 | |
| 5390796 98 | 6021491 98 | |
| 5495607 98 | 6026148 98 | |
| 5515486 98 | 6026392 98 | |
| 5570296 98 | 6035308 98 | |
| 5586301 98 | 6056556 98 | |
| 5604906 98 | 6061693 98 | |

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

| | | |
|--|---|--|
| Inventor(s): Michael R. MANZANO |) | Attorney Docket No.: 023027-0504053 |
| Serial No.: 16/361,641 |) | Confirmation No.: 7093 |
| Filing Date: March 22, 2019 |) | Examiner: Srirama T. Channavajjala |
| |) | Art Unit: 2157 |

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

APPELLANT'S APPEAL BRIEF UNDER 37 C.F.R. § 41.37

MAIL STOP APPEAL BRIEF – PATENTS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Further to the Notice of Appeal filed on March 4, 2020, Appellant respectfully submits Appellant's Appeal Brief pursuant to 37 C.F.R. § 41.37.

The Director is authorized to charge any fees associated with the filing of this Appeal Brief, as well as any additional fees that may be due, or credit any overpayment of same to Deposit Account No. 033975 (**Ref. No. 023027-0504053**).

Appellant hereby appeals the 35 U.S.C. § 102 rejection set forth in the Final Office Action mailed September 5, 2019 (hereinafter “Office Action”), which alleges that claims 1-20 are anticipated by U.S. Publ. No. 2007/0180084 (“Mohanty”).

No amendments have been filed subsequent to the mailing of the Office Action. As such, pending claims 1-20 currently stand rejected and are appealed. No claims have been allowed. The claims appendix (**Section V**) contains a correct listing of the pending claims.

The requirements of 37 C.F.R. § 41.37 are satisfied as follows:

I. REAL PARTY IN INTEREST - 37 C.F.R. § 41.37(c)(1)(i)

The real party in interest in this appeal is Topia Technology, Inc.

II. RELATED APPEALS AND INTERFERENCES - 37 C.F.R. § 41.37(c)(1)(ii)

Appellant is aware of no related appeals or interferences.

III. SUMMARY OF CLAIMED SUBJECT MATTER - 37 C.F.R. § 41.37(c)(1)(iii)

The following exemplary citations to the *as-filed* Specification and drawing figures demonstrating support for the claim recitations are not exclusive, as other examples of support for the claimed subject matter exist. As such, the following citations should not be viewed as limiting.

INDEPENDENT CLAIM 1

Independent claim 1 is directed to a system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to (Specification, e.g., ¶¶ 18, 26, 40, 41, 43, 44, 45, 55, 57, and FIGs. 1-3):

receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file (Specification, e.g., ¶¶ 18, 41, 43, 57, and FIGs. 2-3);

determine that the server system is not in communication with a second client device associated with the user (Specification, e.g., ¶¶ 18, 41, 43, and FIGs. 2-3);

store the copy of the first file on the server system (Specification, e.g., ¶¶ 18, 41, 43, and FIGs. 2-3); and

automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device (Specification, e.g., ¶¶ 18, 41, 43, 57, and FIGs. 2-3).

DEPENDENT CLAIM 3

Claim 3 is directed to the system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3); and

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3).

DEPENDENT CLAIM 4

Claim 4 is directed to the system of claim 3, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3).

DEPENDENT CLAIM 5

Claim 5 is directed to the system of claim 3, wherein availability of the version of the first file is presented at the second client device based on the first metadata (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3).

DEPENDENT CLAIM 9

Claim 9 is directed to the system of claim 1, wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects (Specification, e.g., ¶¶ 23-25, 40, and FIG. 3).

DEPENDENT CLAIM 10

Claim 10 is directed to the system of claim 9, wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system (Specification, e.g., ¶¶ 23-25, 40, and FIG. 3).

DEPENDENT CLAIM 11

Claim 11 is directed to the system of claim 10, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system (Specification, e.g., ¶¶ 23-25, 40, and FIG. 3).

INDEPENDENT CLAIM 12

Independent claim 12 is directed to a method being implemented by a server system comprising one or more processors executing computer program instructions that, when executed, perform the method, the method comprising (Specification, e.g., ¶¶ 28-36, and FIGs. 1-3):

receiving, by the server system, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first

client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file (Specification, e.g., ¶¶ 18, 41, 43, 57, and FIGs. 2-3);

determining, by the server system, whether the server system is in communication with a second client device associated with the user (Specification, e.g., ¶¶ 18, 41, 43, and FIGs. 2-3); and

automatically transferring, by the server system, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) determining that the server system is in communication with the second client device and (ii) receiving the copy of the first file from the first client device (Specification, e.g., ¶¶ 18, 41, 43, 57, and FIGs. 2-3).

DEPENDENT CLAIM 15

Claim 15 is directed to the method of claim 12, further comprising:

receiving, by the server system, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3); and

automatically transferring, by the server system, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3).

DEPENDENT CLAIM 16

Claim 16 is directed to the method of claim 15, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3).

DEPENDENT CLAIM 17

Claim 17 is directed to the method of claim 12, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, and wherein the first application is configured to create a first mobile object, and the first mobile object is configured to create a proxy object at the server system and to provide the copy of the first file to the proxy object (Specification, e.g., ¶¶ 23-25, 40, and FIG. 3).

INDEPENDENT CLAIM 18

Independent claim 18 is directed to one or more non-transitory machine-readable media storing instructions that, when executed by one or more processors of a first computer system, cause operations comprising (Specification, e.g., ¶¶ 28-36, and FIGs. 1-3):

receiving, by the first computer system, over a network, a copy of a first file from a second computer system associated with a user, wherein the copy of the first file is automatically received from the second computer system responsive to the user modifying a content of the first file stored on the second computer system, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file (Specification, e.g., ¶¶ 18, 41, 43, 57, and FIGs. 2-3);

determining, by the first computer system, that the first computer system is not in communication with a third computer system associated with the user (Specification, e.g., ¶¶ 18, 41, 43, and FIGs. 2-3);

storing, by the first computer system, the copy of the first file on the first computer system (Specification, e.g., ¶¶ 18, 41, 43, and FIGs. 2-3); and

automatically transferring, by the first computer system, over a network, the copy of the first file to the third computer system associated with the user to replace an older version of the first file stored on the third computer system, responsive to (i) resuming communication with the third computer system and (ii) receiving the copy of the first file from the second computer system (Specification, e.g., ¶¶ 18, 41, 43, 57, and FIGs. 2-3).

DEPENDENT CLAIM 19

Claim 19 is directed to the non-transitory machine-readable media of claim 18, further comprising:

receiving, by the first computer system, from the second computer system, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3); and

automatically transferring, by the first computer system, the first metadata to the third computer system based on the first priority being greater than the second priority such that the first metadata is transferred to the third computer system prior to the copy of the first file being transferred to the third computer system (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3).

DEPENDENT CLAIM 20

Claim 20 is directed to the non-transitory machine-readable media of claim 19, wherein at least one of the first computer system or the second computer system comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the first computer system or the second computer system assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration (Specification, e.g., ¶¶ 44, 45, 55, and FIGs. 2-3).

IV. ARGUMENT - 37 C.F.R. § 41.37(c)(1)(iv)

The Section 102 rejection is legally improper and must be reversed for the reasons set forth in detail below.

1. Mohanty Fails to Disclose the Independent Claims

As an initial matter, there is no disclosure in Mohanty of a computer system (e.g., a server system) that receives a copy of a file from a first client device associated with a user and automatically transfers the copy of the file to a second client device associated with the user (e.g., to replace an older version of the file stored on the second client device). In particular, at best, Mohanty describes the automatic backup of selected changed files on a client device to a wireless mobile device on a periodic or other timing basis, as well as the automatic back-up of files originating on the wireless mobile device to a network device (e.g., a server or other network device) in a similar fashion. *Mohanty* at Abstract, ¶¶ 28, 54. In other words, Mohanty merely describes (i) a timing-based peer-to-peer backup in the form of a file transfer from a client device to a wireless mobile device and (ii) a timing-based client-to-server backup in the form of a file transfer from the wireless mobile device to a server.

Thus, Mohanty fails to describe a server system that performs automated file transfers between at least two client devices in the manner recited in independent claims 1 and 12, or a computer system that performs such automated file transfers between at least two other computer systems in the manner recited in independent claim 18. For example, Mohanty does not disclose any such system that (i) receives a copy of a file from a user's first client device, (ii) determines whether the system is in communication with the user's second client device, and, (iii) responsive to resuming communication with the second client device (or determining that the device/system is in communication with the second client device), automatically transfer the copy of the file to the second client device (e.g., to replace an older version of the file stored on the second client device). In contrast, the claimed inventions involve a system (e.g., a server system) that performs the foregoing receiving, determining, and automatic transferring operations (where the automatic transfer is responsive to resuming communication with the second client device or determining that the device/system is in communication with the second client device). *See* claims 1, 12, and 18.

In addition, as indicated above, Mohanty merely describes timing-based backups (e.g., periodic or other timing bases), where a timer triggers the transfer of changed files from a client device to a wireless device or from the wireless device to a network device.¹ *Mohanty* at ¶ 54. That is, the automated file backup process in Mohanty is merely performed on a periodic or other timing basis, as opposed to being responsive to a user modifying a content of a file stored on the client device. The claimed invention, however, involves the system (which performs the automatic transfer to the second client device) automatically receiving the copy of the file from the first client device responsive to the user modifying a content of the first file stored on the first client device. See claims 1, 12, and 18.

For at least each of the foregoing reasons, Applicant respectfully requests that the Board reverse the Section 102 rejection.

2. Mohanty Fails to Disclose Dependent Claims 3-5, 15, 16, 19, and 20

With respect to at least claims 3-5, 15, 16, 19, and 20, the claimed inventions further involve a computer system (e.g., a server system) that automatically transfers metadata associated with a copy of a file (received from a first client device) to the second client device prior to the copy of the file being transferred to the second device, where such transfer is based on the associated metadata being assigned a first priority greater than a second priority assigned to the copy the first file. Non-limiting examples of such metadata include, among other metadata, file size, file type/extension, modification time, access time, pixel dimensions, etc.

Although the Office Action relies on paragraph 30-32 of Mohanty for allegedly teaching “defining file metadata such as version of each file in the storage system” and using “specific rules with respect to priority” (see *Office Action* at 18-19), the cited paragraphs do not mention file versions. Paragraphs 27, 28, and 47 of Mohanty includes the term “version,” but only with respect to “how many past versions to keep” (¶27) and to enable a user “to recover a specific older version of a particular file” (¶47). Moreover, Mohanty merely describes the use of rules and priorities to determine which instances of a file should prevail in the event of a conflict in the differences (e.g., changes) between the file instances. See *Mohanty* at ¶¶ 32, 51, 52. Mohanty

¹ Although Mohanty states that synchronization “may be done according to dynamic application requirements,” Mohanty provides no details or examples of such application requirements.

does not, however, describe the assignment of a greater priority to metadata associated with a copy of a file (as compared to the priority assigned to the copy of the file), where the associated metadata is automatically transferred to a second client device prior to the copy of the first being transferred to the second client device based on the associated metadata being assigned the greater priority, in the manner recited by the claims.

For at least the additional foregoing reasons, Applicant respectfully request that the Board reverse the Section 102 rejection with respect to claims 3-5, 15, 16, 19, and 20.

3. Mohanty Fails to Disclose Dependent Claims 9-11 and 17

With respect to at least claims 9-11 and 17, the claimed inventions further involve a computer system (e.g., a server system) that automatically receives the copy of the first file from a first application at the first client device, where “the first application comprises a runtime environment for one or more mobile-agent objects” (e.g., claim 9-11 and 17). The claimed inventions also involve the first application at the first client device being configured to “create a first mobile object” such that “the first mobile object is configured to create a proxy object at the server system (e.g., claims 10, 11, and 17), and the first mobile object being “configured to provide the copy of the first file to the proxy object,” and the proxy object at the server system being “configured to store the copy of the first file on a memory device associated with the server system” (e.g., claims 11 and 17).

Although the Examiner relies on paragraph 25, 26, 29, 42, and 45 of Mohanty for allegedly teaching the foregoing claim limitations, the foregoing cited paragraphs (and other sections of Mohanty) fail to do so. For example, paragraph 25 merely describes that a personal computer may communicate with mobile devices or a server over a communications network, and paragraph 26 focuses on the personal computer being “primarily responsible for the generation of data information, while the mobile devices and server are used for backup of the data.” Paragraph 29 simply reiterates that the mobile devices may be configured “to act as a storage extension or backup device to other devices on the network.” Moreover, paragraph 42 simply describes the setup phase for the overall network, in which one or more devices are associated with one or more storage units, and paragraph 45 describes (i) a change notification rule to notify whether a file change was accepted or rejected and (ii) the frequency in which one or more files should be synchronized. None of the foregoing descriptions of Mohanty, however,

set forth any of the following claim features, nor has the Examiner explained how any aspect of the foregoing descriptions map to the various components of the following claim features.

- * a first application (at a first client device) comprises a runtime environment for one or more mobile-agent objects;
- * the first application (at the first client device) being configured to “create a first mobile object” such that “the first mobile object is configured to create a proxy object at the server system;” or
- * the first mobile object (created by the first application at the first client device) being “configured to provide the copy of the first file to the proxy object” at the server system, where the proxy object at the server system is “configured to store the copy of the first file on a memory device associated with the server system.”

For at least the additional foregoing reasons, Applicant respectfully request that the Board reverse the Section 102 rejection with respect to claims 9-11 and 17.

CONCLUSION

For at least the foregoing reasons, Appellant requests that the rejections of claims 1-20 be reversed.

Respectfully submitted,

Date: September 4, 2020

PILLSBURY WINTHROP SHAW PITTMAN LLP

By: /Ngai B. Zhang/
Ngai B. Zhang
Registration No. 65,473

Customer No. 00909

P.O. Box 10500
McLean, Virginia 22102
Direct Dial: 703.770.7532
Main: 703.770.7900
Fax: 703.770.7901

V. CLAIMS APPENDIX - 37 C.F.R. § 41.37(c)(1)(v) – Pending Claims on Appeal

1. (Original) A system comprising:

a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:

receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determine that the server system is not in communication with a second client device associated with the user; and

store the copy of the first file on the server system;

automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.

2. (Original) The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

store the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server system responsive to determining that the server system is not in communication with the second client device; and

automatically transfer the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.

3. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device.

4. **(Original)** The system of claim 3, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

5. **(Original)** The system of claim 3, wherein availability of the version of the first file is presented at the second client device based on the first metadata.

6. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being a version of the second file that is generated from the user modifying the content of the second file;

determine that the server system is in communication with the first client device associated with the user; and

automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive

to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the first file from the second client device.

7. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

periodically perform a pull request, wherein the copy of the first file is automatically received from the first client device responsive to (i) the pull request and (ii) the user modifying the content of the first file stored on the first client device.

8. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

9. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects.

10. **(Original)** The system of claim 9, wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system.

11. **(Original)** The system of claim 10, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

12. **(Original)** A method being implemented by a server system comprising one or more processors executing computer program instructions that, when executed, perform the method, the method comprising:

receiving, by the server system, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first

client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determining, by the server system, whether the server system is in communication with a second client device associated with the user; and

automatically transferring, by the server system, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) determining that the server system is in communication with the second client device and (ii) receiving the copy of the first file from the first client device.

13. **(Original)** The method of claim 12, further comprising:

initially determining, by the server system, that the server system is not in communication with the second client device associated with the user; and

automatically transferring, by the server system, the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device, (ii) determining that the server system is in communication with the second client device, (iii) and receiving the copy of the first file from the first client device.

14. **(Original)** The method of claim 12, further comprising:

storing, by the server system, the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server system responsive to initially determining that the server system is not in communication with the second client device.

15. **(Original)** The method of claim 12, further comprising:

receiving, by the server system, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, by the server system, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device.

16. **(Original)** The method of claim 15, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

17. **(Original)** The method of claim 12, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, and wherein the first application is configured to create a first mobile object, and the first mobile object is configured to create a proxy object at the server system and to provide the copy of the first file to the proxy object.

18. **(Original)** One or more non-transitory machine-readable media storing instructions that, when executed by one or more processors of a first computer system, cause operations comprising:

receiving, by the first computer system, over a network, a copy of a first file from a second computer system associated with a user, wherein the copy of the first file is automatically received from the second computer system responsive to the user modifying a content of the first file stored on the second computer system, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determining, by the first computer system, that the first computer system is not in communication with a third computer system associated with the user;

storing, by the first computer system, the copy of the first file on the first computer system; and

automatically transferring, by the first computer system, over a network, the copy of the first file to the third computer system associated with the user to replace an older version of the

first file stored on the third computer system, responsive to (i) resuming communication with the third computer system and (ii) receiving the copy of the first file from the second computer system.

19. **(Previously Presented)** The one or more non-transitory machine-readable media of claim 18, further comprising:

receiving, by the first computer system, from the second computer system, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, by the first computer system, the first metadata to the third computer system based on the first priority being greater than the second priority such that the first metadata is transferred to the third computer system prior to the copy of the first file being transferred to the third computer system.

20. **(Original)** The one or more non-transitory machine-readable media of claim 19, wherein at least one of the first computer system or the second computer system comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the first computer system or the second computer system assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

Electronic Patent Application Fee Transmittal

| | | | | |
|--|---|-----------------|---------------|-----------------------------|
| Application Number: | 16361641 | | | |
| Filing Date: | 22-Mar-2019 | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Ngai Bing Zhang | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Small Entity | | | | |
| Filing Fees for Utility under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Post-Allowance-and-Post-Issuance: | | | | |
| Extension-of-Time: | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|------------------------------------|----------|----------|--------|----------------------|
| Extension - 4 months with \$0 paid | 2254 | 1 | 1100 | 1100 |
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 1100 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 40479390 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang |
| Filer Authorized By: | |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 04-SEP-2020 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 15:16:44 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|------------------|
| Submitted with Payment | yes |
| Payment Type | DA |
| Payment was successfully received in RAM | \$ 1100 |
| RAM confirmation Number | E202094F17486528 |
| Deposit Account | |
| Authorized User | |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

| File Listing: | | | | | |
|--|----------------------|------------------|--|------------------|------------------|
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | Appeal Brief Filed | Appeal_Brief.pdf | 219055 | no | 18 |
| | | | eed116f1257f078efa0801c1852f8b20eaa12035 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30713 | no | 2 |
| | | | 1dffbccad424348c6394eb8fc0a8771d038dfd4c | | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 249768 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**NOTICE OF APPEAL FROM THE EXAMINER TO
THE BOARD OF PATENT APPEALS AND INTERFERENCES**

Docket Number (Optional)

023027-0504053

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)]
on _____

Signature _____

Typed or printed
name _____In re Application of
Michael R. MANZANOApplication Number
16/361,641Filed
March 22, 2019

For ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

Art Unit
2157Examiner
Srirama T. ChannavajjalaApplicant hereby **appeals** to the Board of Patent Appeals and Interferences from the last decision of the examiner.

The fee for this Notice of Appeal is (37 CFR 41.20(b)(1))

\$ **800.00**☒ Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by half, and the resulting fee is:\$ **400.00**☐ A check in the amount of the fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director has already been authorized to charge fees in this application to a Deposit Account.☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **033975**☒ A petition for an extension of time under 37 CFR 1.136(a) (PTO/SB/22) is enclosed.**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

I am the

☐ applicant/inventor.**/Ngai B. Zhang/**

Signature

☐ assignee of record of the entire interest.
See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.
(Form PTO/SB/96)**Ngai B. Zhang**

Typed or printed name

☒ attorney or agent of record.
Registration number **65473****703-770-7532**

Telephone number

☐ attorney or agent acting under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34. _____**March 4, 2020**

Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.☒ *Total of **1** forms are submitted.

This collection of information is required by 37 CFR 41.31. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | |
|---|---|---|
| PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) | | Docket Number (Optional) 023027-0504053 |
| Application Number 16/361,641 | Filed March 22, 2019 | |
| For ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |
| Art Unit 2157 | Examiner Srirama T. Channavajjala | |

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

| | Fee | Small Entity Fee | Micro Entity Fee | |
|--|---------|------------------|------------------|--|
| <input type="checkbox"/> One month (37 CFR 1.17(a)(1)) | \$200 | \$100 | \$50 | \$ _____ |
| <input type="checkbox"/> Two months (37 CFR 1.17(a)(2)) | \$600 | \$300 | \$150 | \$ _____ |
| <input checked="" type="checkbox"/> Three months (37 CFR 1.17(a)(3)) | \$1,400 | \$700 | \$350 | \$ 700.00 (less \$300 previously paid) |
| <input type="checkbox"/> Four months (37 CFR 1.17(a)(4)) | \$2,200 | \$1,100 | \$550 | \$ _____ |
| <input type="checkbox"/> Five months (37 CFR 1.17(a)(5)) | \$3,000 | \$1,500 | \$750 | \$ _____ |

☒ Applicant asserts small entity status. See 37 CFR 1.27.☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.☐ A check in the amount of the fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director has already been authorized to charge fees in this application to a Deposit Account.☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to
Deposit Account Number 033975.☒ Payment made via EFS-Web.**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

I am the

☐ applicant/inventor.☐ assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).☒ attorney or agent of record. Registration number 65473.☐ attorney or agent acting under 37 CFR 1.34. Registration number _____./Ngai B. Zhang/March 4, 2020

Signature

Date

Ngai B. Zhang703-770-7532

Typed or printed name

Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.☒ * Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

| | | | | |
|---|---|-----------------|---------------|-----------------------------|
| Application Number: | 16361641 | | | |
| Filing Date: | 22-Mar-2019 | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Ngai Bing Zhang/Sarah Clarke | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Small Entity | | | | |
| Filing Fees for Utility under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| NOTICE OF APPEAL | 2401 | 1 | 400 | 400 |
| Post-Allowance-and-Post-Issuance: | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------------------------|----------|----------|--------|----------------------|
| Extension-of-Time: | | | | |
| Extension - 3 months with \$300 paid | 2253 | 1 | 400 | 400 |
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 800 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 38763640 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Sarah Clarke |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 04-MAR-2020 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 11:12:18 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|------------------|
| Submitted with Payment | yes |
| Payment Type | DA |
| Payment was successfully received in RAM | \$800 |
| RAM confirmation Number | E202034B12414909 |
| Deposit Account | 033975 |
| Authorized User | Sarah Clarke |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.21 (Miscellaneous fees and charges)

Box & Dropbox Exhibit 1012

| File Listing: | | | | | |
|--|------------------------|--------------------------------|--|------------------|------------------|
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | Notice of Appeal Filed | 023027_0504053_NotofAppeal.pdf | 111031 | no | 1 |
| | | | 9df6f1af895727bbf3fc2c3c6266171f5553863e | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Extension of Time | 023027_0504053_EOT.pdf | 118146 | no | 1 |
| | | | 7dc6da4043997f373fc2c093b1090efc121c42f | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 3 | Fee Worksheet (SB06) | fee-info.pdf | 32564 | no | 2 |
| | | | 07497dff56a70879112a68944a6e8ffea30beb8b | | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 261741 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | |
|---|---|--|
| PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) | | Docket Number (Optional) 023027-0504053 |
| Application Number 16/361,641 | Filed March 22, 2019 | |
| For ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |
| Art Unit 2157 | Examiner Srirama T. Channavajjala | |

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

| | Fee | Small Entity Fee | Micro Entity Fee | |
|--|---------|------------------|------------------|------------------|
| <input type="checkbox"/> One month (37 CFR 1.17(a)(1)) | \$200 | \$100 | \$50 | \$ _____ |
| <input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2)) | \$600 | \$300 | \$150 | \$ <u>300.00</u> |
| <input type="checkbox"/> Three months (37 CFR 1.17(a)(3)) | \$1,400 | \$700 | \$350 | \$ _____ |
| <input type="checkbox"/> Four months (37 CFR 1.17(a)(4)) | \$2,200 | \$1,100 | \$550 | \$ _____ |
| <input type="checkbox"/> Five months (37 CFR 1.17(a)(5)) | \$3,000 | \$1,500 | \$750 | \$ _____ |

☒ Applicant asserts small entity status. See 37 CFR 1.27.☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.☐ A check in the amount of the fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director has already been authorized to charge fees in this application to a Deposit Account.☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to
Deposit Account Number 033975☒ Payment made via EFS-Web.**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

I am the

☐ applicant/inventor.☐ assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).☒ attorney or agent of record. Registration number 65473☐ attorney or agent acting under 37 CFR 1.34. Registration number _____/Ngai B. Zhang/

Signature

February 3, 2020

Date

Ngai B. Zhang

Typed or printed name

703-770-7532

Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.☒ * Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

| | | | | |
|---|---|-----------------|---------------|-----------------------------|
| Application Number: | 16361641 | | | |
| Filing Date: | 22-Mar-2019 | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Ngai Bing Zhang/Sarah Clarke | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Small Entity | | | | |
| Filing Fees for Utility under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Post-Allowance-and-Post-Issuance: | | | | |
| Extension-of-Time: | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|------------------------------------|----------|----------|--------|----------------------|
| Extension - 2 months with \$0 paid | 2252 | 1 | 300 | 300 |
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 300 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 38477377 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Sarah Clarke |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 03-FEB-2020 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 16:25:03 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|------------------|
| Submitted with Payment | yes |
| Payment Type | DA |
| Payment was successfully received in RAM | \$ 300 |
| RAM confirmation Number | E202023G25207867 |
| Deposit Account | 033975 |
| Authorized User | Sarah Clarke |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
37 CFR 1.21 (Miscellaneous fees and charges)

| File Listing: | | | | | |
|--|----------------------|------------------------|--|------------------|------------------|
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | Extension of Time | 023027_0504053_EOT.pdf | 115674 | no | 1 |
| | | | b30484b8ebf64dd529997f4ed07ca19d01bfc09b | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30803 | no | 2 |
| | | | ec091ba960d88459816c532aadcfbfc174ef396 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 146477 | | |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | | | | | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

909 7590 11/20/2019
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

| |
|----------|
| EXAMINER |
|----------|

CHANNAVAJJALA, SRIRAMA T

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2157

| | |
|-------------------|---------------|
| NOTIFICATION DATE | DELIVERY MODE |
|-------------------|---------------|

11/20/2019

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

| | | | |
|---|---|--|--------------------------------|
| <i>Applicant-Initiated Interview Summary</i> | Application No. 16/361,641 | Applicant(s) MANZANO, Michael R. | |
| | Examiner Srirama T Channavajjala | Art Unit 2157 | AIA (FITF) Status No |

All participants (applicant, applicants representative, PTO personnel):

- (1) Srirama T. Channavajjala. (3) Janine Terrano, CEO, TOPIA Tech.
 (2) Ngai B Zhang, Reg.No. 65,473. (4) _____.

Date of Interview: 14 November 2019.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☒102 ☐103 ☐Others

(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: claim 1.

Identification of prior art discussed: US Pub.No. 2007/0180084.

Substance of Interview

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Discussed instant application background and summary of the invention and drawing fig 3

Discussed claim 1 limitation "a server system comprising one or morereceive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file; determine that the server system is not in communication with a second client device associated with the user; automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device....."

Discussed prior art of reference US Pub.No. 2007/0180084

Applicant may further clarify claim 1 language, no agreement reached.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/Srirama Channavajjala/
 Primary Examiner, Art Unit 2157

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

909 7590 09/05/2019
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

| |
|----------|
| EXAMINER |
|----------|

CHANNAVAJJALA, SRIRAMA T

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2157

| | |
|-------------------|---------------|
| NOTIFICATION DATE | DELIVERY MODE |
|-------------------|---------------|

09/05/2019

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

This application is a CON of 16/017,348 filed on 06/25/2018 US PAT 10289607 16/017,348 is a CON of 14/860,289 filed on 09/21/2015 US PAT 10067942 14/860,289 is a CON of 12/267,852 filed on 11/10/2008 US PAT 9143561 which claims benefit of US provisional 60/986,896 filed on 11/09/2007

TRACK 1 request granted on 4/21/2019.

DETAILED ACTION

Response to Amendment

1. Claims 1-20 are pending in this application.
2. Examiner acknowledges applicant's remarks filed on 8/21/2019.

Drawings

3. The Drawings filed on 3/22/2019 are acceptable for examination purpose

Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 3/22/2019 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner, mailed on 5/22/2019

Priority

5. Acknowledgment is made of applicant's claim for domestic priority based on an US provisional application 60/986,896 filed 11/9/2007.

Response to Argument

1. Applicant's arguments page 8-11 with respect to claims 1-20 filed 8/21/2019 have been fully considered, for examiners' response, see discussion below:

a) At page 8, examiner noted applicant's remarks on double patent, however, examiner hereby maintains non statutory double patent rejection, applicant may further consider filing terminal disclaimer to overcome the double patent rejection, subject to approval.

b) At page 8-9, claim 1, applicant argues the following:

"Mohanty fails to describe a server system that performs automated file transfers between at least two client devices in the manner recited in independent claims 1,12.

As to the above argument (b), as best understood by the examiner, the prior art is directed to managing logical documents, more specifically logical documents from the network devices associated with the wireless mobile devices (see fig 1, 0007); prior art of Mohanty teaches multiple mobile devices sharing files over a communication network, particularly logical documents may be associated with the mobile device 12 is automatically transferred from the mobile device 12 to other devices along notifying the users or devices that files have been updated, further it is noted that Mohanty supports automated rules that synchronize the file changed both by mobile or client device(s) and order entry device, thereby maintains modified or updated content of the file (page 3, 0029, 0030, 0032, page 4, 0034-0035, page 5, 0044, fig 1B-1C)

c) At page 9, claim 1, applicant argues the following:

“Mohanty does not disclose any device/system that (i) receives a copy of a file from a user’s first client device, (ii) determines whether the device/system is in communication with the user’s second client device, and, (iii) responsive to resuming communication with the second client device (or determining that the device/system is in communication with the second client device), automatically transfer the copy of the file to the second client device (e.g., to replace an older version of the file stored on the second client device)”.

As to the above argument (c), as best understood by the examiner, as explained above, the prior art of Mohanty supports automatically transfer copy from one device to other devices connected in an network environment, further prior art of Mohanty teaches devices are connected in a network, however, server element 18 does not have access to the security process with respect to the defined encrypted or decrypted form, thereby server system is not communication with the other devices (page 3, 0031, page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3, fig 5 , also prior art of Mohanty teaches maintaining files version control that identifies files that have been changed as detailed in fig 5

d) At page 10, examiner noted applicant’s applicant remarks on claims 3-5,15-16,19-20, Mohanty does not automatically transfers metadata associated with a copy of a file (received from a first client device) to the second client device prior to the copy of the file being transferred to the second device.....

As to the above argument (d), as best understood by the prior art of Mohanty specifically teaches file are communicated in a network environment (fig 1) and each file

defined with file identifier and version(s) corresponds to file metadata, prior art of Mohanty teaches files associated with the version(s) stored and initializing the logical document management provides the distribution and maintenance further files as associated with the access control list, version(s) forms the metadata of respective file(s)) as detailed in page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3,fig 5

Examiner applies above arguments to claims 12,18, and claims 2-11,13-17,19-20 depend from claim 1,12,18.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit <http://www.uspto.gov/forms/>. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all

requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to

<http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp>.

7. Claims 1-20 of US Application No. 16/361,641 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-13 of U.S. Patent No. **9,143,561**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

| Instant US application: 16/361,641 | US Patent No. 9,143,561 |
|--|---|
| Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive</u> , over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is <u>automatically received from the first client device responsive to the user modifying a</u> | Claim 1, A system, comprising: a first electronic device configured to selectively execute a first application, the first electronic device being in communication with a second electronic device and a third electronic device, each associated with a user wherein the first electronic device is configured to: <u>receive</u> from a second application executable on the second electronic device a copy of a first electronic file <u>automatically transferred from the second application when the user modifies a</u> content of the first electronic file; and |

| | |
|---|---|
| <p>content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;</p> <p>determine that the server system is not in communication with a second client device associated with the user; and</p> <p>store the copy of the first file on the server system;</p> <p><u>automatically transfer</u>, over a network, the copy of the first file to the second client device associated with the user to <u>replace an older version of the first file</u> stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.</p> | <p>wherein the first electronic device is further configured to receive from a third application executable on the third electronic device a copy of a second electronic file automatically transferred from the third application when the user modifies a content of the second electronic file; and</p> <p>wherein the first application is further configured to <u>automatically transfer the modified first electronic file copy</u> to the third electronic device to <u>replace an older version of the first electronic file</u> stored on the third electronic device with the modified first electronic file copy having the content modified by the user; and</p> <p>automatically transfer the modified second electronic file copy to the second electronic device to replace an older version of the second electronic file stored on the second electronic device</p> |
|---|---|

| | |
|--|---|
| | <p>with the modified second electronic file copy having the content modified by the user;</p> <p>wherein the second application <u>automatically transfers the copy of the modified first electronic file</u> to the first electronic device upon determining that a save operation has been performed on the modified first electronic file.</p> |
|--|---|

It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-13 of U.S. Patent No. **9,143,561** to arrive at the claims 1-20 of the instant application **16/361,641** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before.

8. Claims 1-20 of US Application No. 16/361,641 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-18 of U.S. Patent No. **10,067,942**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

| Instant US application: 16/361,641 | US Patent No. 10,067,942 |
|--|---|
| Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive</u> , over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is <u>automatically</u> received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is | Claim 1,10, A system, comprising: a first electronic device configured to selectively execute a first application, the first electronic device being in communication with a second electronic device and a third electronic device, each associated with a user wherein the first electronic device is configured to: <u>receive</u> from a second application executable on the second electronic device a copy of a first electronic file <u>automatically</u> transferred from the second application when the user modifies a content of the first electronic file; and wherein the first electronic device is further configured to receive from a third application executable on the third |

| | |
|--|---|
| <p>generated from the user modifying the content of the first file;</p> <p>determine that the server system is not in communication with a second client device associated with the user; and</p> <p>store the copy of the first file on the server system;</p> <p><u>automatically transfer</u>, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second</p> | <p>electronic device a copy of a second electronic file automatically transferred from the third application when the user modifies a content of the second electronic file; and</p> <p>wherein the first application is further configured to automatically transfer the modified first electronic file copy to the third electronic device to replace an older version of the first electronic file stored on the third electronic device with the modified first electronic file copy having the content modified by the user; and</p> <p><u>automatically transfer</u> the modified second electronic file copy to the second electronic device to replace an older version of the second electronic file stored on the second electronic device with the modified second electronic file copy having the content modified by the user;</p> <p>wherein the second application automatically transfers the copy of the</p> |
|--|---|

| | |
|---|--|
| client device and (ii) receiving the copy of the first file from the first client device. | modified first electronic file to the first electronic device upon determining that a save operation has been performed on the modified first electronic file. |
|---|--|

It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-18 of U.S. Patent No. **10,067,942** to arrive at the claims 1-20 of the instant application **16/361,641** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before, as such instant application is broader.

9. Claims 1-20 of US Application No. 16/361,641 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-21 of U.S. Patent No. **10,289,607**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

| Instant US application: 16/361,641 | US Patent No. 10,289,607 |
|---|---|
| Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive, over a network, a copy of</u> a first file from a first client device associated with a user, wherein the copy of the first file is <u>automatically received from the first client device</u> responsive to the user <u>modifying a content of the first file stored on the first client device</u> , the copy of the first file being a version of the first file that is generated from the <u>user modifying the content of the first file</u> ; | Claim 1,12, A system, comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive, over a network, a copy of a first</u> file from a first client device associated with a user, wherein the copy of the first file is <u>automatically received from the first client device</u> responsive to the user <u>modifying a content of the first file stored on the first client device</u> , the copy of the first file being a version of the first file that is generated from the <u>user modifying the content of the first file</u> ; receive, from the first client device, first metadata associated with the version |

| | |
|--|--|
| <p>determine that the server system is not in communication with a second client device associated with the user; and</p> <p>store the copy of the first file on the server system;</p> <p><u>automatically transfer</u>, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.</p> | <p>of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file;</p> <p>determine that the server system is not in communication with a second client device associated with the user; store the copy of the first file on the server system; automatically transfer the first metadata to the second client device based on the first priority being greater than the second priority such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device; and automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client</p> |
|--|--|

| | |
|--|--|
| | device and (ii) receiving the copy of the first file from the first client device. |
|--|--|

It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-21 of U.S. Patent No. **10,289,607** to arrive at the claims 1-20 of the instant application **16/361,641** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before, as such instant application is broader.

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (**pre-AIPA** 35 U.S.C. 102(e)).

10. ***Claim(s) 1-20 is/are rejected under pre-AIA 35 U.S.C. 102(e,a) as being anticipated by Mohanty, US Pub. No. 2007/0180084 filed on Feb 2006, published Aug 2007.***

11. As to Claim 1,12,18, Mohanty teaches “A system comprising: (fig 1A)
a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: (fig 1A-1B, element 12, 18, 22 – server system corresponds to Mohanty’s mobile device element 22);
receive, over a network, (fig 1, element 20) a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically

received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file” (page 3, 0029, 0030, 0032, page 4, 0034-0035, page 5, 0044, fig 1B-1C – Mohanty teaches multiple mobile devices sharing files over a communication network, particularly logical documents may be associated with the mobile device 12 is automatically transferred from the mobile device 12 to other devices along notifying the users or devices that files have been updated, further it is noted that Mohanty supports automated rules that synchronize the file changed both by mobile or client device(s) and order entry device, thereby maintains modified or updated content of the file);

“determine that the server system is not in communication with a second client device associated with the user” (page 3, 0031 – Mohanty teaches devices are connected in a network, however, server element 18 does not have access to the security process with respect to the defined encrypted or decrypted form, thereby server system is not communication with the other devices); and

“store the copy of the first file on the server system” (page 3, 0027-0028);

“automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, (page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3, fig 5 – Mohanty teaches maintaining files version control that identifies files that have been changed as detailed in fig 5); responsive to (i) resuming communication with the second client device (page 3, 0028);and (ii) receiving the copy of the first file from the first client device” (page 6, 0060).

12. As to Claim 2,13, Mohanty teaches wherein the computer program instructions, when executed, cause the server system to(fig 1A-1B)

“store the copy of the first file to a memory device associated with the server system” (page 3, 0027, fig 1A-1B), wherein the copy of the first file is stored on the memory device associated with the server system responsive to determining that the server system is not in communication with the second client device (page 3, 0031 – Mohanty teaches devices are connected in a network, however, server element 18 does not have access to the security process with respect to the defined encrypted or decrypted form, thereby server system is not communication with the other devices); and

automatically transfer the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, (page 7, 0059, page 8, 0060).responsive to (i) resuming communication with the second client device (page 3, 0028) and (ii) receiving the copy of the first file from the first client device (page 6, 0060)..

13. As to Claim 3,15,19, Mohanty teaches “wherein the computer program instructions, when executed, cause the server system to” (fig 1A-1B):

“receive, from the first client device” (fig 1A-1B), first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file (page 3, 0031-0032 – Mohanty teaches defining file

metadata such as version of each file in the storage system, also access or use the file and notification process identifies the specific rules with respect to priority); and

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device (page 3, 0027, 0031, page 5, 0047, page 6, 0050, 0054, fig 3, fig 5-Mohanty teaches files associated with the version(s) stored and initializing the logical document management provides the distribution and maintenance further files as associated with the access control list, version(s) forms the metadata of respective file(s))

14. As to Claim 4,16,20, Mohanty teaches “wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration (page 3, 0032, page 6, 0051, 0055, fig 4).

15. As to Claim 5, Mohanty teaches “wherein availability of the version of the first file is presented at the second client device based on the first metadata” (page 5, 0047).

16. As to Claim 6, Mohanty teaches wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being a version of the second file that is generated from the user modifying the content of the second file (page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3,fig 5);

“determine that the server system is in communication with the first client device associated with the user” (fig 1A-1B, 0042); and

“automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to” (page 7, 0059, page 8, 0060). (i) determining that the server system is in communication with the first client device (fig 1A-1C) and (ii) receiving the copy of the first file from the second client device(fig 1A-1C)

17. As to Claim 7, Mohanty teaches wherein the computer program instructions, when executed, cause the server system to (fig 1A-1C)

“periodically perform a pull request, wherein the copy of the first file is automatically received from the first client device responsive to (i) the pull request and (ii) the user modifying the content of the first file stored on the first client device (fig 2, fig 5, page 6, 0053-0054).

18. As to Claim 8, Mohanty teaches “wherein the copy of the first file is automatically received from the first client device responsive (fig 1A-1C) to (i) a push request of the first client device(page 5, 0043) and (ii) the user modifying the content of the first file stored on the first client device(page 5, 0042-0043).

19. As to Claim 9, Mohanty teaches “wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects” (fig 1B-1C , page 3, 0029)..

20. As to Claim 10, Mohanty teaches “wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system” (page 3, 0025-0026).

21. As to Claim 11, Mohanty teaches “wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system” (page 4, 0042, 0045).

22. As to Claim 14, Mohanty teaches “storing, by the server system, the copy of the first file to a memory device associated with the server system,(page 3, 0028-0029) wherein the copy of the first file is stored on the memory device associated with the server system responsive to initially determining that the server system is not in

communication with the second client device(page 3, 0031 – Mohanty teaches devices are connected in a network, however, server element 18 does not have access to the security process with respect to the defined encrypted or decrypted form, thereby server system is not communication with the other devices);.

23. As to Claim 17, Mohanty teaches wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, and wherein the first application is configured to create a first mobile object, and the first mobile object is configured (page 3, 0029, 0030, 0032, page 4, 0034-0035, page 5, 0044, fig 1B-1C) to create a proxy object at the server system and to provide the copy of the first file to the proxy object (page 4, 0042, 0045).

Conclusion

The prior art made of record

- a. US Pub. No. 2007/0180084

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

SEE MPEP 2141.02 [R-5] VI. PRIOR ART MUST BE CONSIDERED IN ITS ENTIRETY, INCLUDING DISCLOSURES THAT TEACH AWAY FROM THE CLAIMS: A prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. W.L. Gore & Associates, Inc. v. Garlock, Inc., 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984) In re Fulton, 391 F.3d 1195, 1201,73 USPQ2d 1141, 1146 (Fed. Cir. 2004). >See also MPEP §2123.

In the case of amending the Claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Trujillo James, can be reached on (571) 272- 3677. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

| | | | | |
|--|---------------------------------------|--|---|-------------|
| <i>Notice of References Cited</i> | Application/Control No. 16/361,641 | | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. | |
| | Examiner Srirama T Channavajjala | | Art Unit 2157 | Page 1 of 1 |

U.S. PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Name | CPC Classification | US Classification |
|---|---|--|-----------------|--------------------|--------------------|-------------------|
| * | A | US-20070180084-A1 | 08-2007 | Mohanty; Subhashis | G06F11/1451 | 709/223 |
| | B | | | | | |
| | C | | | | | |
| | D | | | | | |
| | E | | | | | |
| | F | | | | | |
| | G | | | | | |
| | H | | | | | |
| | I | | | | | |
| | J | | | | | |
| | K | | | | | |
| | L | | | | | |
| | M | | | | | |


FOREIGN PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Country | Name | CPC Classification |
|---|---|--|-----------------|---------|------|--------------------|
| | N | | | | | |
| | O | | | | | |
| | P | | | | | |
| | Q | | | | | |
| | R | | | | | |
| | S | | | | | |
| | T | | | | | |

NON-PATENT DOCUMENTS

| * | | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|---|
| | U | |
| | V | |
| | W | |
| | X | |

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

| | | |
|---|--|---|
| <i>Search Notes</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2157 |

| CPC - Searched* | | |
|--|------------|----------|
| Symbol | Date | Examiner |
| G06F 16/00;178;182;10;1873;1756;1824;1844;23 | 05/17/2019 | sc |
| G06F 8/71; G06F 11/1435;1448 | 05/17/2019 | sc |

| CPC Combination Sets - Searched* | | |
|----------------------------------|------|----------|
| Symbol | Date | Examiner |
| | | |

| US Classification - Searched* | | | |
|-------------------------------|----------|------|----------|
| Class | Subclass | Date | Examiner |
| | | | |

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| Search Notes | | |
|------------------------|------------|----------|
| Search Notes | Date | Examiner |
| Inventor search | 05/15/2019 | sc |
| PLUS search | 05/15/2019 | sc |
| IP.COM search attached | 05/15/2019 | sc |
| google search attached | 05/15/2019 | sc |
| EAST search attached | 08/29/2019 | sc |

| Interference Search | | | |
|---------------------|-----------------------|------|----------|
| US Class/CPC Symbol | US Subclass/CPC Group | Date | Examiner |
| | | | |

| | |
|--|--|
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2157 | |
|--|--|

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L17 | 17 | (distribut\$3 and file\$1 and version\$1 and device\$1 and copy).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L20 | 9 | L19 and (distribut\$3 adj5 file\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|----|-----|------------------|
| L21 | 15 | <p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1)</p> | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
|-----|----|--|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|--|----|-----|------------------|
| L22 | 4 | <p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile</p> | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
|-----|---|--|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|--|----|-----|------------------|
| L23 | 4 | <p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile and device\$1</p> | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
|-----|---|--|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|---|----|-----|------------------|
| L24 | 4 | <p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 modify\$3)</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:18 |
| L26 | 34 | <p>(distribut\$3 and file\$1 and version\$1 and mobile).ab. and @py<="2007"</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:18 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|----|-----|------------------|
| L27 | 1 | L26 AND ((G06F9/44536 OR G06F17/30194 OR G06F8/665 OR G06F8/68 OR G06F17/30477 OR G06F21/64 OR G06F3/0482 OR G06F3/1208 OR G06F3/122 OR G06F3/124 OR G06F3/1242 OR G06F3/1246 OR G06F3/1247 OR G06F3/1256 OR G06F3/1287 OR G06F3/1288 OR G06F3/1289 OR G06F3/1292 OR G06F3/167).CPC.) and transfer\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L30 | 10 | (mobile and device\$1 and file\$1 and transfer\$3 and version\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L35 | 2 | L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and version\$1 and mobile | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L36 | 2 | L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and mobile | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L37 | 7 | (distribut\$3 and file\$1 and version\$1 and copy\$3).ab. and mobile and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|----|-----|------------------|
| L41 | 1 | L39 AND ((G06F1/1632 OR G06F13/409 OR G06F1/1626 OR H04M3/42323 OR G06F21/62 OR G06F3/0482 OR H04M11/06 OR H04M1/725 OR H04M3/42314 OR G06F1/206 OR H04N1/00127 OR H04N1/00236 OR H04N2201/0049 OR G06F1/169 OR G06F1/1656 OR H04M1/2473 OR H01H2223/052 OR G06F3/03541 OR G06F3/03549 OR H04M11/066 OR H04N1/00339 OR H04N1/00392 OR H04N1/00538 OR G06F1/1635 OR G06F3/03543 OR H04L63/10 OR G06F3/0362 OR G06Q30/0601 OR H04N2201/0081 OR H04N2201/0082 OR G06F21/73 OR G06F2221/2129 OR G06F9/445 OR H04N2201/0093 OR G06F3/03545 OR G06F1/1688 OR G06F1/1698 OR G06F2211/007 OR G06F3/0485 OR G06F12/1466 OR G06F13/385 OR G06F1/20 OR G06F21/10 OR G06F21/31 OR G06F21/445 OR G06F21/57 OR G06F21/6218 OR G06F21/79 OR G06F21/82 OR G06F2200/201 OR G06F2211/1097 OR G06F2221/0733 OR G06F2221/0737 OR G06F2221/0759 OR G06F2221/2141 OR G06F3/0213 OR G06F3/0354 OR G06F3/04886 OR G06F3/16 OR G06F8/68). CPC.) and (modify\$3 same file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L43 | 4 | L42 AND ((G06F17/30132 OR G06F8/61 OR G06F8/65 OR G06F17/30176 OR G06F17/3023 OR G06F8/71).CPC.) and file\$1 and transfer\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L44 | 2 | L42 AND ((G06F17/30132 OR G06F8/61 OR G06F8/65 OR G06F17/30176 OR G06F17/3023 OR G06F8/71).CPC.) and file\$1 and transfer\$4 and (updat\$3 or modif\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L45 | 18 | "7260646".uref. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L46 | 1 | "20020107808".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |
| L47 | 1 | "20040128308".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |
| L48 | 1 | "20050132204".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|----|-----|------------------|
| L49 | 1 | "20060062426".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |
| L50 | 1 | "20060075225".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |
| L51 | 1 | "20070162764".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |
| L52 | 1 | "20070243860".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |
| L53 | 1 | "20070265977".PN. | US-PGPUB | OR | OFF | 2019/08/29 17:18 |
| L61 | 9 | L60 and (distribut\$3 adj5 file\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
| L62 | 15 | L60 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|----|-----|------------------|
| L63 | 4 | <p>L60 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile</p> | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
|-----|---|---|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|--|----|-----|------------------|
| L64 | 4 | <p>L60 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile and device\$1</p> | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:18 |
|-----|---|--|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|---|----|-----|------------------|
| L65 | 4 | <p>L60 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 modify\$3)</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:18 |
| L67 | 34 | <p>(distribut\$3 and file\$1 and version\$1 and mobile).ab. and @py<="2007"</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|----|-----|------------------|
| L68 | 1 | L67 AND ((G06F9/44536 OR G06F17/30194 OR G06F8/665 OR G06F8/68 OR G06F17/30477 OR G06F21/64 OR G06F3/0482 OR G06F3/1208 OR G06F3/122 OR G06F3/124 OR G06F3/1242 OR G06F3/1246 OR G06F3/1247 OR G06F3/1256 OR G06F3/1287 OR G06F3/1288 OR G06F3/1289 OR G06F3/1292 OR G06F3/167).CPC.) and transfer\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L70 | 10 | (mobile and device\$1 and file\$1 and transfer\$3).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L71 | 10 | (mobile and device\$1 and file\$1 and transfer\$3 and version\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L75 | 19 | L73 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L76 | 2 | L73 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and version\$1 and mobile | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L77 | 2 | L73 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and mobile | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|----|-----|------------------|
| L78 | 7 | (distribut\$3 and file\$1 and version\$1 and copy\$3).ab. and mobile and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L80 | 26 | L79 and (version\$1 near5 id\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L82 | 1 | L80 AND ((G06F1/1632 OR G06F13/409 OR G06F1/1626 OR H04M3/42323 OR G06F21/62 OR G06F3/0482 OR H04M11/06 OR H04M1/725 OR H04M3/42314 OR G06F1/206 OR H04N1/00127 OR H04N1/00236 OR H04N2201/0049 OR G06F1/169 OR G06F1/1656 OR H04M1/2473 OR H01H2223/052 OR G06F3/03541 OR G06F3/03549 OR H04M11/066 OR H04N1/00339 OR H04N1/00392 OR H04N1/00538 OR G06F1/1635 OR G06F3/03543 OR H04L63/10 OR G06F3/0362 OR G06Q30/0601 OR H04N2201/0081 OR H04N2201/0082 OR G06F21/73 OR G06F2221/2129 OR G06F9/445 OR H04N2201/0093 OR G06F3/03545 OR G06F1/1688 OR G06F1/1698 OR G06F2211/007 OR G06F3/0485 OR G06F12/1466 OR G06F13/385 OR G06F1/20 OR G06F21/10 OR G06F21/31 OR G06F21/445 OR G06F21/57 OR G06F21/6218 OR G06F21/79 OR G06F21/82 OR G06F2200/201 OR G06F2211/1097 OR G06F2221/0733 OR G06F2221/0737 OR G06F2221/0759 OR G06F2221/2141 OR G06F3/0213 OR G06F3/0354 OR G06F3/04886 OR G06F3/16 OR G06F8/68). CPC.) and (modify\$3 same file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L84 | 42 | L83 and (receiv\$3 adj5 copy) | USPAT | OR | OFF | 2019/08/29 17:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|-------|----|-----|------------------|
| L85 | 37 | L84 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 | USPAT | OR | OFF | 2019/08/29 17:19 |
|-----|----|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|-------|----|-----|------------------|
| L86 | 19 | L84 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near\$5 file\$1) | USPAT | OR | OFF | 2019/08/29 17:19 |
|-----|----|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|-------|----|-----|------------------|
| L87 | 13 | <p>L84 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near5 file\$1) and (transfer\$3 near5 file\$1)</p> | USPAT | OR | OFF | 2019/08/29 17:19 |
|-----|----|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|-------|----|-----|------------------|
| L88 | 12 | L84 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near5 file\$1) and (transfer\$3 near5 file\$1) and (server\$1 near5 file\$1) | USPAT | OR | OFF | 2019/08/29 17:19 |
|-----|----|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|-------|----|-----|------------------|
| L89 | 2 | <p>L84 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near5 file\$1) and (transfer\$3 near5 file\$1) and (server\$1 near5 file\$1) and (client near5 file\$1)</p> | USPAT | OR | OFF | 2019/08/29 17:19 |
|-----|---|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|-------|----|-----|------------------|
| L93 | 4 | L84 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (file\$1 near5 metadata) | USPAT | OR | OFF | 2019/08/29 17:19 |
| L95 | 4 | (file\$1 and version\$1 and copy and modify\$3).ab. and @py<="20106" | USPAT | OR | OFF | 2019/08/29 17:19 |
| L96 | 1 | (file\$1 and version\$1 and copy and modify\$3).ab. and @py<="2006" | USPAT | OR | OFF | 2019/08/29 17:19 |
| L97 | 45 | (file\$1 and version\$1 and copy).ab. and @py<="2006" | USPAT | OR | OFF | 2019/08/29 17:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|-------|----|-----|------------------|
| L98 | 2 | <p> L97 AND ((Y10S707/99953 OR Y10S707/99931 OR Y10S707/99954 OR G06F8/658 OR G06F16/10 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR Y10S707/99933 OR Y10S707/99938 OR Y10S707/99945 OR G06F11/1464 OR Y10S707/99955 OR G06F11/1453 OR G06F21/565 OR G06Q30/06 OR H04L67/28 OR G06F11/1451 OR G06F11/1469 OR G06F16/178 OR G06F16/182 OR G06F16/1873 OR G06F21/10 OR G06F8/71 OR G06Q10/087 OR H04L29/06 OR H04L67/1095 OR Y10S707/959 OR G06F11/006 OR G06F11/10 OR G06F11/1435 OR G06F11/1448 OR G06F11/2066 OR G06F11/2071 OR G06F11/2079 OR G06F11/2082 OR G06F11/2094 OR G06F11/2097 OR G06F13/10 OR G06F13/105 OR G06F16/116 OR G06F16/1734 OR G06F16/1756 OR G06F16/1774 OR G06F16/1824 OR G06F16/184 OR G06F16/1844 OR G06F16/23 OR G06F16/2379 OR G06F16/9014 OR G06F16/93 OR G06F16/958 OR G06F1/24 OR G06F2003/0697 OR G06F21/31 OR G06F21/57 OR G06F21/575 OR G06F21/6281 OR G06F21/64 OR G06F2209/543 OR G06F2216/09 OR G06F2221/0744 OR G06F2221/2101 OR G06F2221/2105 OR G06F3/0601 OR G06F3/0605 OR G06F3/0658 OR G06F3/0677 OR G06F8/60 OR G06F8/61 OR G06F8/65 OR G06F8/66 OR G06F9/445 OR G06F9/44521 OR G06F9/453 OR G06F9/45537 OR G06F9/485 OR G06F9/542 OR H04L67/2842 OR H04L67/2852 OR H04L67/2876 OR H04L67/42 OR H04L69/08 OR H04N1/32122).CPC.) and (automatically near5 receiv\$3) </p> | USPAT | OR | OFF | 2019/08/29 17:19 |
|-----|---|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|---|----|-----|------------------|
| L99 | 1 | <p>L59 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (file\$1 near5 metadata)</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:19 |
|-----|---|--|---|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|------|----|--|---|----|-----|------------------|
| L100 | 18 | <p>L59 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (file\$1 near5 version\$1)</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:19 |
|------|----|--|---|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|------|---|---|---|----|-----|------------------|
| L101 | 1 | <p>L59 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (file\$1 near5 version\$1) and resum\$3</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:19 |
|------|---|---|---|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|------|----|---|---|----|-----|------------------|
| L102 | 17 | <p>L59 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and server\$1</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:19 |
|------|----|---|---|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|------|---|--|---|----|-----|------------------|
| L103 | 1 | <p>L59 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and server\$1 and (second near5 client\$1)</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/08/29 17:19 |
|------|---|--|---|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|------|---|--|--|----|-----|------------------|
| L105 | 1 | L59 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (modify\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L107 | 5 | (file\$1 and version\$1 and metadata).ti. and @py<"2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/29 17:19 |
| L111 | 2 | 59 and ID\$1 | USPAT | OR | OFF | 2019/08/29 17:36 |

PLUS Search Results for S/N 16361641, Searched Wed Aug 28 13:38:55 EDT 2019
 The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

| | | |
|----------------|----------------|------------|
| 9143561 99 | 20150379291 87 | 4468728 77 |
| 10067942 99 | 20160104130 87 | 4484241 77 |
| 10289607 99 | 20160132927 87 | |
| 20090138528 99 | 20160140647 87 | |
| 20160012067 99 | 20180204182 87 | |
| 20180307698 99 | 7568001 80 | |
| 20190220442 99 | 20040054743 80 | |
| 5369764 89 | 5550746 78 | |
| 5634091 89 | 5410589 77 | |
| 5664207 89 | 5533103 77 | |
| 5721826 89 | 5805831 77 | |
| 5793938 89 | 5995944 77 | |
| 5819274 89 | 6098054 77 | |
| 6134707 89 | 6108697 77 | |
| 6429947 89 | 5319705 77 | |
| 6550061 89 | 5325290 77 | |
| 6636864 89 | 5327341 77 | |
| 7421444 89 | 5440401 77 | |
| 7450734 89 | 5654738 77 | |
| 9537949 89 | 5682481 77 | |
| 10346462 89 | 5722893 77 | |
| 20060018506 89 | 5737726 77 | |
| 20060115108 89 | 5761667 77 | |
| 20150089022 89 | 5875110 77 | |
| 20150154231 89 | 5915253 77 | |
| 20050114658 88 | 5937406 77 | |
| 5771354 87 | 5991746 77 | |
| 5812398 87 | 6005569 77 | |
| 5901228 87 | 6011758 77 | |
| 6202199 87 | 6029153 77 | |
| 6286047 87 | 6047060 77 | |
| 6327579 87 | 6108004 77 | |
| 6389541 87 | 6119051 77 | |
| 6411943 87 | 6122631 77 | |
| 6460163 87 | 6208338 77 | |
| 7444374 87 | 6230173 77 | |
| 8732250 87 | 6301660 77 | |
| 9892273 87 | 6850950 77 | |
| 20010054004 87 | 20020174010 77 | |
| 20020022969 87 | 20030037187 77 | |
| 20050138081 87 | 4034411 77 | |
| 20050162670 87 | 4145745 77 | |
| 20050246341 87 | 4109238 77 | |
| 20060189878 87 | 4274139 77 | |
| 20070094321 87 | 4288658 77 | |
| 20070094365 87 | RE30821 77 | |
| 20070094389 87 | 4324484 77 | |
| 20070094391 87 | 4423448 77 | |
| 20140279868 87 | 4459663 77 | |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 36933616 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Sarah Clarke |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 21-AUG-2019 |
| Filing Date: | 22-MAR-2019 |
| Time Stamp: | 10:17:19 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|---|-----------------------------|---|------------------|------------------|
| 1 | Amendment/Req. Reconsideration-After Non-Final Reject | 023027_0504053_Response.pdf | 88285 eda5d13f53d0b2a441f6371a7855a811ec2d37c5 | no | 11 |

Warnings:

Box & Dropbox Exhibit 1012

| | |
|---|-------|
| Information: | |
| Total Files Size (in bytes): | 88285 |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> | |

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

| | | | | |
|-------------------------------------|--------------------|---|-----------------------------|--------------------------|
| In Re Patent Application Of: | Michael R. MANZANO |) | Attorney Docket No.: | 023027-0504053 |
| Serial No.: | 16/361,641 |) | Confirmation No.: | 7093 |
| Filing Date: | March 22, 2019 |) | Examiner: | Srirama T. Channavajjala |
| | |) | Art Unit: | 2157 |

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**RESPONSE TO OFFICE ACTION
MAILED MAY 22, 2019**

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

In response to the Office Action mailed **May 22, 2019** (hereinafter "Office Action"), please amend the above-identified application as follows:

Amendments to the Claims begin on page **2** of this paper.

Remarks begin on page **8** of this paper.

It is believed that no extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to Deposit Account No. 033975 (**Ref. No. 023027-0504053**).

This listing of claims will replace all prior versions and listings of claims in the Application.

LISTING OF CLAIMS:

1. **(Original)** A system comprising:

a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:

receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determine that the server system is not in communication with a second client device associated with the user; and

store the copy of the first file on the server system;

automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.

2. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

store the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server system responsive to determining that the server system is not in communication with the second client device; and

automatically transfer the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.

3. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device.

4. **(Original)** The system of claim 3, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

5. **(Original)** The system of claim 3, wherein availability of the version of the first file is presented at the second client device based on the first metadata.

6. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being a version of the second file that is generated from the user modifying the content of the second file;

determine that the server system is in communication with the first client device associated with the user; and

automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive

to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the first file from the second client device.

7. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

periodically perform a pull request, wherein the copy of the first file is automatically received from the first client device responsive to (i) the pull request and (ii) the user modifying the content of the first file stored on the first client device.

8. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

9. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects.

10. **(Original)** The system of claim 9, wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system.

11. **(Original)** The system of claim 10, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

12. **(Original)** A method being implemented by a server system comprising one or more processors executing computer program instructions that, when executed, perform the method, the method comprising:

receiving, by the server system, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first

client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determining, by the server system, whether the server system is in communication with a second client device associated with the user; and

automatically transferring, by the server system, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) determining that the server system is in communication with the second client device and (ii) receiving the copy of the first file from the first client device.

13. **(Original)** The method of claim 12, further comprising:

initially determining, by the server system, that the server system is not in communication with the second client device associated with the user; and

automatically transferring, by the server system, the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device, (ii) determining that the server system is in communication with the second client device, (iii) and receiving the copy of the first file from the first client device.

14. **(Original)** The method of claim 12, further comprising:

storing, by the server system, the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server system responsive to initially determining that the server system is not in communication with the second client device.

15. **(Original)** The method of claim 12, further comprising:

receiving, by the server system, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, by the server system, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device.

16. **(Original)** The method of claim 15, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

17. **(Original)** The method of claim 12, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, and wherein the first application is configured to create a first mobile object, and the first mobile object is configured to create a proxy object at the server system and to provide the copy of the first file to the proxy object.

18. **(Original)** One or more non-transitory machine-readable media storing instructions that, when executed by one or more processors of a first computer system, cause operations comprising:

receiving, by the first computer system, over a network, a copy of a first file from a second computer system associated with a user, wherein the copy of the first file is automatically received from the second computer system responsive to the user modifying a content of the first file stored on the second computer system, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determining, by the first computer system, that the first computer system is not in communication with a third computer system associated with the user;

storing, by the first computer system, the copy of the first file on the first computer system; and

automatically transferring, by the first computer system, over a network, the copy of the first file to the third computer system associated with the user to replace an older version of the

first file stored on the third computer system, responsive to (i) resuming communication with the third computer system and (ii) receiving the copy of the first file from the second computer system.

19. **(Currently Amended)** The one or more non-transitory machine-readable media of claim 18, ~~claim 19~~, further comprising:

receiving, by the first computer system, from the second computer system, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, by the first computer system, the first metadata to the ~~second client device~~ third computer system based on the first priority being greater than the second priority such that the first metadata is transferred to the ~~second client device~~ third computer system prior to the copy of the first file being transferred to the ~~second client device~~ third computer system.

20. **(Original)** The one or more non-transitory machine-readable media of claim 19, wherein at least one of the first computer system or the second computer system comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the first computer system or the second computer system assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

REMARKS

By this response, claims 1-20 are pending. Claim 19 has been amended. No claims have been cancelled or newly added. In view of the following comments, allowance of all the claims pending in the application is respectfully requested.

NON-STATUTORY DOUBLE PATENTING REJECTION

Applicant respectfully notes the double patenting rejection and requests that the double patenting rejection be held in abeyance until the Examiner has indicated allowable subject matter. At such time, Applicant will determine whether the filing of a terminal disclaimer is appropriate. Furthermore, Applicant notes that the filing of a Terminal Disclaimer to obviate a rejection based on non-statutory double patenting does not constitute an admission of the propriety of the rejection.

SECTION 102 REJECTION

Applicant respectfully traverses the Section 102 rejection as allegedly being anticipated by U.S. Patent Application Publication No. 2007/0180084 to Mohanty (“Mohanty”) for at least the reasons set forth below.

1. Mohanty Fails to Disclose the Independent Claims

Mohanty fails to disclose the features of the independent claims for at least each of the following three reasons.

First, there is no disclosure in Mohanty of a computer system (e.g., a server system) that receives a copy of a file from a first client device associated with a user and automatically transfers the copy of the file to a second client device associated with the user. In particular, at best, Mohanty describes the automatic backup of selected changed files on a client device to a wireless mobile device on a periodic or other timing basis, as well as the automatic back-up of files originating on the wireless mobile device to a network device (e.g., a server or other network device) in a similar fashion. *Mohanty* at Abstract, ¶¶ 28, 54. In other words, Mohanty merely describes (i) a timing-based peer-to-peer backup in the form of a file transfer from a client device to a wireless mobile device and (ii) a timing-based client-to-server backup in the

form of a file transfer from the wireless mobile device to a server. Thus, Mohanty fails to describe a server system that performs automated file transfers between at least two client devices in the manner recited in independent claims 1 and 12, or a computer system that performs such automated file transfers between at least two other computer systems in the manner recited in independent claim 18.

Second, Mohanty does not disclose any device/system that (i) receives a copy of a file from a user's first client device, (ii) determines whether the device/system is in communication with the user's second client device, and, (iii) responsive to resuming communication with the second client device (or determining that the device/system is in communication with the second client device), automatically transfer the copy of the file to the second client device (e.g., to replace an older version of the file stored on the second client device). In contrast, the claimed inventions involve a device/system (e.g., a server system) that performs the foregoing receiving, determining, and automatic transferring operations (where the automatic transfer is responsive to resuming communication with the second client device or determining that the device/system is in communication with the second client device). *See* claims 1, 12, and 18.

Third, as indicated above, Mohanty merely describes timing-based backups (e.g., periodic or other timing bases), where a timer triggers the transfer of changed files from a client device to a wireless device or from the wireless device to a network device.¹ *Mohanty* at ¶ 54. That is, the automated file backup process in Mohanty is merely performed on a periodic or other timing basis, as opposed to being responsive to a user modifying a content of a file stored on the client device. The claimed invention, however, involves the device/system (which performs the automatic transfer to the second client device) automatically receiving the copy of the file from the first client device responsive to the user modifying a content of the first file stored on the first client device. *See* claims 1, 12, and 18.

For at least each of the foregoing reasons, Applicant respectfully requests withdrawal of the Section 102 rejection.

¹ Although Mohanty states that synchronization "may be done according to dynamic application requirements," Mohanty provides no details or examples of such application requirements.

2. Mohanty Fails to Disclose the Dependent Claims

The dependent claims are allowable because they each ultimately depend from an allowable independent claim, as well as for the further features they recite.

For example, with respect to at least claims 3-5, 15, 16, 19, and 20, the claimed inventions further involve a computer system (e.g., a server system) that automatically transfers metadata associated with a copy of a file (received from a first client device) to the second client device prior to the copy of the file being transferred to the second device, where such transfer is based on the associated metadata being assigned a first priority greater than a second priority assigned to the copy the first file. Non-limiting examples of such metadata include, among other metadata, file size, file type/extension, modification time, access time, pixel dimensions, etc.

Although the Office Action relies on paragraph 30-32 of Mohanty for allegedly teaching “defining file metadata such as version of each file in the storage system” and using “specific rules with respect to priority” (*see Office Action* at 15-16), the cited paragraphs do not mention file versions. Paragraphs 27, 28, and 47 of Mohanty includes the term “version,” but only with respect to “how many past versions to keep” (§27) and to enable a user “to recover a specific older version of a particular file” (§47). Moreover, Mohanty merely describes the use of rules and priorities to determine which instances of a file should prevail in the event of a conflict in the differences (e.g., changes) between the file instances. *See Mohanty* at §§ 32, 51, 52. Mohanty does not, however, describe the assignment of a greater priority to metadata associated with a copy of a file (as compared to the priority assigned to the copy of the file), where the associated metadata is automatically transferred to a second client device prior to the copy of the first being transferred to the second client device based on the associated metadata being assigned the greater priority, in the manner recited by the claims.

For at least the additional foregoing reasons, Applicant respectfully request withdrawal of the Section 102 rejection with respect to the dependent claims, including (but not limited to) claims 3-5, 15, 16, 19, and 20.

It should be noted that, although Applicant has not addressed each rejection of the dependent claims, any rejection of a dependent claim not specifically addressed is not to be construed as an admission by Applicant of the correctness of that rejection. Applicant reserves the right to address the rejection of any dependent claim at a later time should that become warranted.

CONCLUSION

Having addressed each of the foregoing rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action and, as such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Respectfully submitted,

Date: August 21, 2019

PILLSBURY WINTHROP SHAW PITTMAN LLP

By: /Ngai B. Zhang/
Ngai B. Zhang
Registration No. 65,473

Customer No. 00909

P.O. Box 10500
McLean, Virginia 22102
Direct Dial: 703.770.7532
Main: 703.770.7900
Fax: 703.770.7901

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | | | | | | | | |
|---|--|---|--------------|--|---------------|---------------------------|--|---------------------------------------|--|--|
| PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875 | | | | Application or Docket Number 16/361,641 | | Filing Date 03/22/2019 | | <input type="checkbox"/> To be Mailed | | |
| ENTITY: <input type="checkbox"/> LARGE <input checked="" type="checkbox"/> SMALL <input type="checkbox"/> MICRO | | | | | | | | | | |
| APPLICATION AS FILED - PART I | | | | | | | | | | |
| | | (Column 1) | (Column 2) | | | | | | | |
| FOR | | NUMBER FILED | NUMBER EXTRA | RATE (\$) | | FEE (\$) | | | | |
| <input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c)) | | N/A | N/A | N/A | | | | | | |
| <input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (i), or (m)) | | N/A | N/A | N/A | | | | | | |
| <input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q)) | | N/A | N/A | N/A | | | | | | |
| TOTAL CLAIMS (37 CFR 1.16(i)) | | minus 20 = | * | x \$50 = | | | | | | |
| INDEPENDENT CLAIMS (37 CFR 1.16(h)) | | minus 3 = | * | x \$230 = | | | | | | |
| <input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s)) | | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). | | | | | | | | |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) | | | | | | | | | | |
| * If the difference in column 1 is less than zero, enter "0" in column 2. | | | | TOTAL | | | | | | |
| APPLICATION AS AMENDED - PART II | | | | | | | | | | |
| | | (Column 1) | (Column 2) | (Column 3) | | | | | | |
| AMENDMENT | 08/21/2019 | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$) | | ADDITIONAL FEE (\$) | | |
| | Total (37 CFR 1.16(i)) | * 20 | Minus | ** 20 | = 0 | x \$50 = | | 0 | | |
| | Independent (37 CFR 1.16(h)) | * 3 | Minus | *** 3 | = 0 | x \$230 = | | 0 | | |
| | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s)) | | | | | | | | | |
| | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | | | |
| | | | | | | TOTAL ADD'L FEE | | 0 | | |
| | | (Column 1) | (Column 2) | (Column 3) | | | | | | |
| AMENDMENT | | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE (\$) | | ADDITIONAL FEE (\$) | | |
| | Total (37 CFR 1.16(i)) | * | Minus | ** | = | x \$0 = | | | | |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | x \$0 = | | | | |
| | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s)) | | | | | | | | | |
| | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | | | |
| | | | | | | TOTAL ADD'L FEE | | | | |
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3. | | | | | | LIE | | | | |
| ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". | | | | | | /ROSS W BROWN/ | | | | |
| *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". | | | | | | | | | | |
| The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1. | | | | | | | | | | |

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 |

CONFIRMATION NO. 7093

PUBLICATION NOTICE



OC000000109740444

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

Title:ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

Publication No.US-2019-0220442-A1

Publication Date:07/18/2019

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

909 7590 05/22/2019
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

| |
|----------|
| EXAMINER |
|----------|

CHANNAVAJJALA, SRIRAMA T

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2157

| | |
|-------------------|---------------|
| NOTIFICATION DATE | DELIVERY MODE |
|-------------------|---------------|

05/22/2019

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

*This application is a CON of 16/017,348 filed on 06/25/2018 US PAT 10289607
16/017,348 is a CON of 14/860,289 filed on 09/21/2015 US PAT 10067942
14/860,289 is a CON of 12/267,852 filed on 11/10/2008 US PAT 9143561 which claims
benefit of US provisional 60/986,896 filed on 11/09/2007*

TRACK 1 request granted on 4/21/2019.

DETAILED ACTION

1. Claims 1-20 are pending in this application.

Drawings

2. The Drawings filed on 3/22/2019 are acceptable for examination purpose

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 3/22/2019 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Priority

4. Acknowledgment is made of applicant's claim for domestic priority based on an US provisional application 60/986,896 filed 11/9/2007.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit <http://www.uspto.gov/forms/>. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to <http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp>.

6. Claims 1-20 of US Application No. 16/361,641 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-13 of U.S. Patent No. **9,143,561**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

| Instant US application: 16/361,641 | US Patent No. 9,143,561 |
|---|--|
| Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive</u> , over a network, a copy of a first file from a first client device | Claim 1, A system, comprising: a first electronic device configured to selectively execute a first application, the first electronic device being in communication with a second electronic device and a third electronic device, each associated with a user wherein the first electronic device is configured to: <u>receive</u> from a second application executable on the second electronic |

| | |
|---|--|
| <p>associated with a user, wherein the copy of the first file is <u>automatically received from the first client device responsive to the user modifying a</u> content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;</p> <p>determine that the server system is not in communication with a second client device associated with the user; and</p> <p>store the copy of the first file on the server system;</p> <p><u>automatically transfer</u>, over a network, the copy of the first file to the second client device associated with the user to <u>replace an older version of the first file</u> stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.</p> | <p>device a copy of a first electronic file <u>automatically transferred from the second application when the user modifies a</u> content of the first electronic file; and wherein the first electronic device is further configured to receive from a third application executable on the third electronic device a copy of a second electronic file automatically transferred from the third application when the user modifies a content of the second electronic file; and</p> <p>wherein the first application is further configured to <u>automatically transfer the modified first electronic file copy</u> to the third electronic device to <u>replace an older version of the first electronic file</u> stored on the third electronic device with the modified first electronic file copy having the content modified by the user; and</p> |
|---|--|

| | |
|--|--|
| | <p>automatically transfer the modified second electronic file copy to the second electronic device to replace an older version of the second electronic file stored on the second electronic device with the modified second electronic file copy having the content modified by the user;</p> <p>wherein the second application <u>automatically transfers the copy of the modified first electronic file</u> to the first electronic device upon determining that a save operation has been performed on the modified first electronic file.</p> |
|--|--|

It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-13 of U.S. Patent No. **9,143,561** to arrive at the claims 1-20 of the instant application **16/361,641** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in

combination is obvious expedient if the remaining elements perform same functions as before.

7. Claims 1-20 of US Application No. 16/361,641 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-18 of U.S. Patent No. **10,067,942**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

| Instant US application: 16/361,641 | US Patent No. 10,067,942 |
|--|--|
| Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive</u> , over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is <u>automatically</u> received from the first client device responsive to the user modifying a | Claim 1,10, A system, comprising: a first electronic device configured to selectively execute a first application, the first electronic device being in communication with a second electronic device and a third electronic device, each associated with a user wherein the first electronic device is configured to: <u>receive</u> from a second application executable on the second electronic device a copy of a first electronic file <u>automatically</u> transferred from the second application when the user modifies a content of the first electronic file; and |

| | |
|---|---|
| <p>content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;</p> <p>determine that the server system is not in communication with a second client device associated with the user; and</p> <p>store the copy of the first file on the server system;</p> <p><u>automatically transfer</u>, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client</p> | <p>wherein the first electronic device is further configured to receive from a third application executable on the third electronic device a copy of a second electronic file automatically transferred from the third application when the user modifies a content of the second electronic file; and</p> <p>wherein the first application is further configured to automatically transfer the modified first electronic file copy to the third electronic device to replace an older version of the first electronic file stored on the third electronic device with the modified first electronic file copy having the content modified by the user; and</p> <p><u>automatically transfer</u> the modified second electronic file copy to the second electronic device to replace an older version of the second electronic file stored on the second electronic device with the modified second electronic file</p> |
|---|---|

| | |
|--|--|
| device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device. | copy having the content modified by the user; wherein the second application automatically transfers the copy of the modified first electronic file to the first electronic device upon determining that a save operation has been performed on the modified first electronic file. |
|--|--|

It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-18 of U.S. Patent No. **10,067,942** to arrive at the claims 1-20 of the instant application **16/361,641** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before, as such instant application is broader.

8. Claims 1-20 of US Application No. 16/361,641 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-21 of U.S. Patent No. **10,289,607**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

| Instant US application: 16/361,641 | US Patent No. 10,289,607 |
|---|---|
| Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive, over a network, a copy of</u> a first file from a first client device associated with a user, wherein the copy of the first file is <u>automatically received from the first client device</u> responsive to the user <u>modifying a content of the first file stored on the first client device</u> , the copy of the first file being a version of the first file that is generated from the <u>user modifying the content of the first file</u> ; | Claim 1,12, A system, comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: <u>receive, over a network, a copy of a first</u> file from a first client device associated with a user, wherein the copy of the first file is <u>automatically received from the first client device</u> responsive to the user <u>modifying a content of the first file stored on the first client device</u> , the copy of the first file being a version of the first file that is generated from the <u>user modifying the content of the first file</u> ; receive, from the first client device, first metadata associated with the version |

| | |
|--|--|
| <p>determine that the server system is not in communication with a second client device associated with the user; and</p> <p>store the copy of the first file on the server system;</p> <p><u>automatically transfer</u>, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.</p> | <p>of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file;</p> <p>determine that the server system is not in communication with a second client device associated with the user; store the copy of the first file on the server system; automatically transfer the first metadata to the second client device based on the first priority being greater than the second priority such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device; and automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client</p> |
|--|--|

| | |
|--|--|
| | device and (ii) receiving the copy of the first file from the first client device. |
|--|--|

It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-21 of U.S. Patent No. **10,289,607** to arrive at the claims 1-20 of the instant application **16/361,641** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before, as such instant application is broader.

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (**pre-AIPA** 35 U.S.C. 102(e)).

9. ***Claim(s) 1-20 is/are rejected under pre-AIA 35 U.S.C. 102(e,a) as being anticipated by Mohanty, US Pub. No. 2007/0180084 filed on Feb 2006, published Aug 2007.***

10. As to Claim 1,12,18, Mohanty teaches “A system comprising: (fig 1A)
a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to: (fig 1A-1B, element 12, 18, 22 – server system corresponds to Mohanty’s mobile device element 22);
receive, over a network, (fig 1, element 20) a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically

received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file” (page 3, 0029, 0030, 0032, page 4, 0034-0035, page 5, 0044, fig 1B-1C – Mohanty teaches multiple mobile devices sharing files over a communication network, particularly logical documents may be associated with the mobile device 12 is automatically transferred from the mobile device 12 to other devices along notifying the users or devices that files have been updated, further it is noted that Mohanty supports automated rules that synchronize the file changed both by mobile or client device(s) and order entry device, thereby maintains modified or updated content of the file);

“determine that the server system is not in communication with a second client device associated with the user” (page 3, 0031 – Mohanty teaches devices are connected in a network, however, server element 18 does not have access to the security process with respect to the defined encrypted or decrypted form, thereby server system is not communication with the other devices); and

“store the copy of the first file on the server system” (page 3, 0027-0028);

“automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, (page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3, fig 5 – Mohanty teaches maintaining files version control that identifies files that have been changed as detailed in fig 5); responsive to (i) resuming communication with the second client device (page 3, 0028);and (ii) receiving the copy of the first file from the first client device” (page 6, 0060).

11. As to Claim 2,13, Mohanty teaches wherein the computer program instructions, when executed, cause the server system to(fig 1A-1B)

“store the copy of the first file to a memory device associated with the server system” (page 3, 0027, fig 1A-1B), wherein the copy of the first file is stored on the memory device associated with the server system responsive to determining that the server system is not in communication with the second client device (page 3, 0031 – Mohanty teaches devices are connected in a network, however, server element 18 does not have access to the security process with respect to the defined encrypted or decrypted form, thereby server system is not communication with the other devices); and

automatically transfer the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, (page 7, 0059, page 8, 0060).responsive to (i) resuming communication with the second client device (page 3, 0028) and (ii) receiving the copy of the first file from the first client device (page 6, 0060)..

12. As to Claim 3,15,19, Mohanty teaches “wherein the computer program instructions, when executed, cause the server system to” (fig 1A-1B):

“receive, from the first client device” (fig 1A-1B), first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file (page 3, 0031-0032 – Mohanty teaches defining file

metadata such as version of each file in the storage system, also access or use the file and notification process identifies the specific rules with respect to priority); and

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device (page 3, 0027, 0031, page 5, 0047, page 6, 0050, 0054, fig 3, fig 5-Mohanty teaches files associated with the version(s) stored and initializing the logical document management provides the distribution and maintenance further files as associated with the access control list, version(s) forms the metadata of respective file(s))

13. As to Claim 4,16,20, Mohanty teaches “wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration (page 3, 0032, page 6, 0051, 0055, fig 4).

14. As to Claim 5, Mohanty teaches “wherein availability of the version of the first file is presented at the second client device based on the first metadata” (page 5, 0047).

15. As to Claim 6, Mohanty teaches wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being a version of the second file that is generated from the user modifying the content of the second file (page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3,fig 5);

“determine that the server system is in communication with the first client device associated with the user” (fig 1A-1B, 0042); and

“automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to” (page 7, 0059, page 8, 0060). (i) determining that the server system is in communication with the first client device (fig 1A-1C) and (ii) receiving the copy of the first file from the second client device(fig 1A-1C)

16. As to Claim 7, Mohanty teaches wherein the computer program instructions, when executed, cause the server system to (fig 1A-1C)

“periodically perform a pull request, wherein the copy of the first file is automatically received from the first client device responsive to (i) the pull request and (ii) the user modifying the content of the first file stored on the first client device (fig 2, fig 5, page 6, 0053-0054).

17. As to Claim 8, Mohanty teaches “wherein the copy of the first file is automatically received from the first client device responsive (fig 1A-1C) to (i) a push request of the first client device(page 5, 0043) and (ii) the user modifying the content of the first file stored on the first client device(page 5, 0042-0043).

18. As to Claim 9, Mohanty teaches “wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects” (fig 1B-1C , page 3, 0029)..

19. As to Claim 10, Mohanty teaches “wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system” (page 3, 0025-0026).

20. As to Claim 11, Mohanty teaches “wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system” (page 4, 0042, 0045).

21. As to Claim 14, Mohanty teaches “storing, by the server system, the copy of the first file to a memory device associated with the server system,(page 3, 0028-0029) wherein the copy of the first file is stored on the memory device associated with the server system responsive to initially determining that the server system is not in

communication with the second client device(page 3, 0031 – Mohanty teaches devices are connected in a network, however, server element 18 does not have access to the security process with respect to the defined encrypted or decrypted form, thereby server system is not communication with the other devices);.

22. As to Claim 17, Mohanty teaches wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, and wherein the first application is configured to create a first mobile object, and the first mobile object is configured (page 3, 0029, 0030, 0032, page 4, 0034-0035, page 5, 0044, fig 1B-1C) to create a proxy object at the server system and to provide the copy of the first file to the proxy object (page 4, 0042, 0045).

Conclusion

The prior art made of record

- a. US Pub. No. 2007/0180084

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

SEE MPEP 2141.02 [R-5] VI. PRIOR ART MUST BE CONSIDERED IN ITS ENTIRETY, INCLUDING DISCLOSURES THAT TEACH AWAY FROM THE CLAIMS: A prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. W.L. Gore & Associates, Inc. v. Garlock, Inc., 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984) In re Fulton, 391 F.3d 1195, 1201,73 USPQ2d 1141, 1146 (Fed. Cir. 2004). >See also MPEP §2123.

In the case of amending the Claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Trujillo James, can be reached on (571) 272- 3677. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157.

| | | | | |
|-----------------------------------|---------------------------------------|--|---|-------------|
| Notice of References Cited | Application/Control No. 16/361,641 | | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. | |
| | Examiner Srirama T Channavajjala | | Art Unit 2157 | Page 1 of 1 |

U.S. PATENT DOCUMENTS

| * | | Document Number Code-Number-Kind Code | Country | Date MM-YYYY | Name | CPC Classification | US Classification |
|---|---|--|---------|-----------------|--------------------------|--------------------|-------------------|
| * | A | US-20070180084-A1 | | 08-2007 | Mohanty; Subhashis | G06F11/1451 | 709/223 |
| * | B | US-20030115547-A1 | | 06-2003 | Ohwada, Toshikazu | G06F16/93 | 715/229 |
| * | C | US-6088693-A | | 07-2000 | Van Huben; Gary Alan | G06F16/2343 | 1/1 |
| * | D | US-7058667-B2 | | 06-2006 | Goldick; Jonathan S | G06F16/10 | 1/1 |
| * | E | US-7051364-B1 | | 05-2006 | Tackman; Robert B. | G06Q50/188 | 705/80 |
| * | F | US-6826626-B1 | | 11-2004 | McManus; Patrick Raymond | G06F16/9574 | 709/246 |
| * | G | US-7263493-B1 | | 08-2007 | Provost; Wayne A. | G06F19/328 | 705/2 |
| * | H | US-7162501-B2 | | 01-2007 | Kupkova; Helena | G06F16/93 | 1/1 |
| * | I | US-20020194382-A1 | | 12-2002 | Kausik, Balas Natarajan | G06F9/54 | 709/246 |
| * | J | US-20050210371-A1 | | 09-2005 | Pollock, Joshua Michael | G06F17/212 | 715/212 |
| * | K | US-7149760-B1 | | 12-2006 | Breuer; Matthias | G06F16/93 | 1/1 |
| | L | | | | | | |
| | M | | | | | | |

FOREIGN PATENT DOCUMENTS

| * | | Document Number Code-Number-Kind Code | Country | Date MM-YYYY | Country | Name | CPC Classification |
|---|---|--|---------|-----------------|---------|------|--------------------|
| | N | | | | | | |
| | O | | | | | | |
| | P | | | | | | |
| | Q | | | | | | |
| | R | | | | | | |
| | S | | | | | | |
| | T | | | | | | |

NON-PATENT DOCUMENTS


| * | | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|---|
| | U | |
| | V | |
| | W | |
| | X | |

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20190515

| | | |
|---|--|---|
| <i>Search Notes</i>  | Application/Control No. 16/361,641 | Applicant(s)/Patent Under Reexamination MANZANO, Michael R. |
| | Examiner Srirama T Channavajjala | Art Unit 2157 |

| CPC - Searched* | | |
|--|------------|----------|
| Symbol | Date | Examiner |
| G06F 16/00;178;182;10;1873;1756;1824;1844;23 | 05/17/2019 | sc |
| G06F 8/71; G06F 11/1435;1448 | 05/17/2019 | sc |

| CPC Combination Sets - Searched* | | |
|----------------------------------|------|----------|
| Symbol | Date | Examiner |
| | | |

| US Classification - Searched* | | | |
|-------------------------------|----------|------|----------|
| Class | Subclass | Date | Examiner |
| | | | |

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| Search Notes | | |
|------------------------|------------|----------|
| Search Notes | Date | Examiner |
| Inventor search | 05/15/2019 | sc |
| PLUS search | 05/15/2019 | sc |
| IP.COM search attached | 05/15/2019 | sc |
| google search attached | 05/15/2019 | sc |

| Interference Search | | | |
|---------------------|-----------------------|------|----------|
| US Class/CPC Symbol | US Subclass/CPC Group | Date | Examiner |
| | | | |

| | |
|--|--|
| /Srirama Channavajjala/ Primary Examiner, Art Unit 2157 | |
|--|--|

SEARCH TERMS

x

copy x or + Synonym

transfer x or + Synonym

files x or + Synonym

+ Synonym

SEARCH FIELDS

Date - Priority v

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office v Language v

Status v Type v

About 3,741,091 results

Downloaded Side-by-side

Sort by: Relevance v Grouped by: None v Results / page: 10 v

File transfers using playlistsUS • [US6928435A](#) • Shyamal Chowdhury • International Business Machines Corporation
Priority 1997-10-23 • Filing 1997-10-23 • Grant 2000-02-15 • Publication 2000-02-15When the PAUSE API is called, the command processor identifies the **file transfer** to be paused by the channel handle. In the case of **minimal copy transfer**, if the pause location is in the **file** currently being transferred by the **minimal copy transfer** software or in the **file** queued to the **minimal copy** . . .**Method for transferring files from one machine to another using adjacent ...**US • [US7519915B2](#) • Ouyenai Babalundhi Saka • International Business Machines Corporation
Priority 2002-10-10 • Filing 2002-10-10 • Grant 2009-04-14 • Publication 2009-04-14responsive to activating a log resource sharing process checkbox on the desktop view folder, maintaining a record of all **file transfers** conducted on the desktop view folder, using a **file copy** configuration tab on the graphical user interface, setting a first plurality of properties for a **file copy** . . .**Method and apparatus for establishing a social network through file transfer**WO EP US CN JP KR • [CN104410664B](#) • 内藤 R・罗伯特・高橋股份有限公司

Priority 2009-04-02 • Filing 2009-05-12 • Grant 2018-03-09 • Publication 2018-03-09

[0026] As used herein, the term "document" or "digital document" is intended to encompass any form of a computer processor resources identification information is stored. Users typically will be edited within the **file** as a **file** system, **copy**, **move**, **delete** or rename the entity. However, the same . . .**File transfer mechanism**WO EP US CN JP AU CA DE NZ • [JP3288859B2](#) • ギャビン・マックワイリアムズ、・ブリティッシュ・テレコム・ニケーショ
ン・パブリック・リミテッド・カンパニー

Priority 1994-05-19 • Filing 1995-05-19 • Grant 2002-07-05 • Publication 2002-07-05

Copy 2. A method of self computer and **file transfer** mechanism for providing overall control of each **transfer** of a series of data **files** with another computer, each **file** Reliable a computer and a **file transfer** protocol elements to ensure the that the, the **file transfer** mechanism is from the **file** . . .**File transfer system**WO EP US JP AU BR CA EA SG • [CA2306680C](#) • Maurice W. Hall • Hyperspace Communications, Inc.

Priority 1997-11-13 • Filing 1998-11-13 • Grant 2010-02-09 • Publication 2010-02-09

13. The **file transfer** device of claim 1, further comprising an index system that defines an index that can be requested by remote devices via the connection, the index comprising information indicating at least one **file** of which the remote computer can request a **copy** via a data transfer, and an . . .**File transfer method and system**US JP • [US7185197B2](#) • Motoaki Hirabayashi • Hitachi, Ltd.

Priority 2002-04-23 • Filing 2002-08-20 • Grant 2007-03-06 • Publication 2007-03-06

BACKGROUND OF THE INVENTION The present invention relates to a **file transfer** method and system for transferring **files** to a remote place and making backup **copies**, etc. using a SAN (Storage Area Network). In contrast to a system for connecting computers via a network, SAN (Storage Area Network), a . . .**Transferring files**US • [US8875844B2](#) • James Crawford • Facebook, Inc.

Priority 2009-05-18 • Filing 2015-01-09 • Grant 2018-01-23 • Publication 2018-01-23

receiving, by the second device, the transfer from the first client device, the transfer including the additional or updated portions of the **copy** of the **file** and not the entire **copy** of the **file**. 2. The method as recited in claim 1, further comprising: receiving a **file** info message from the first . . .**Managing host to workstation file transfer**EP US JP BR • [US4298786A](#) • Anthony M. Peters • International Business Machines Corporation
Priority 1988-06-13 • Filing 1988-06-13 • Grant 1991-03-12 • Publication 1991-03-12++) /TWS name is built on receive by stripping all characters except first three from the host **file** type, yielding XXX. By simple compare of the host filetype (all eight characters) to the combined EXT and APPEND fields, the proper transfer options are obtained.*/ Complete[] = FALSE, /*Copy first . . .

File system and file transfer method between file sharing devices



EP US JP DE • EP1513065B1 • Nobuyuki Hitachi Ltd. Intel. Prop. Group Sakka • Hitachi, Ltd.

Priority 2003-06-04 • Filing 2004-06-10 • Grant 2006-08-04 • Publication 2008-06-04

shows ACL information resetting processing that is executed by the ACL information setting function 42 of the **transfer destination file server 40**. First, the name of the **transferred** directory is acquired (S21).

The directory name can be acquired by way of a manual operation (drag & copy) by the ...

System and method for copying and moving files between devices in a controlled ...

WQ EP US CN AU DK ES • ES2557429I3 • Jukka Aho • Nokia Technologies Oy

Priority 2001-10-10 • Filing 2002-10-10 • Grant 2016-01-26 • Publication 2016-01-26

A method for moving protected content within an authorized domain (10), wherein at least a first device (12) and a second device (13) are part of the authorized domain, sharing each of the devices (12, 13) forming part of the authorized domain a domain key, which have the domain key defines the ...

Next



About 2,741,001 results

SEARCH TERMS

X

About 355,365 results

Download Side-by-side

Sort by Relevance Grouped by None Results / page 10

files + Synonym

versions + Synonym

metadata + Synonym

+ Synonym

SEARCH FIELDS

Data Priority

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office Language

Status Type

System and method for storage of snapshot metadata in a remote file

US • [US7644108B2](#) • Stephen L. Manley • Netapp, Inc.

Priority 2002-03-19 • Filing 2006-01-06 • Grant 2010-01-05 • Publication 2010-01-05

program instructions that compare a major **version** and a minor **version** of the **metadata file** to a latest known major **version** and a latest known minor **version** associated with a storage system kernel; program instructions that update, in response to if either the major **version** or the minor **version** of ...

Externally managed file versions

US • [US7533133B1](#) • Thomas W. Lanzetta • Symantec Operating Corporation

Priority 2004-04-28 • Filing 2004-04-28 • Grant 2009-05-12 • Publication 2009-05-12

275 may provide a complete **version** of data, in which case Data Object 277 would not be used to fill in data gaps, but only to provide a previous, historical, **version** of the **file image**. According to another embodiment, Client 250 may later request another frozen image. In response, **Metadata Server**

Adding directives for versions of javascript files directly into source code in ...

US • [US20110286381A1](#) • James Mooney • Salesforce.Com, Inc.

Priority 2010-05-27 • Filing 2011-01-05 • Publication 2011-12-01

claim 1, further comprising: retrieving **metadata** associated with a preprocessed directive in the **version** of the source **file**; receiving a request for **metadata** associated the **version** of the source **file**; and generating at least a portion of markup language for a web page in accordance with **metadata**.

Distribution of data/metadata in a version control system

US • [US20090626587A1](#) • Lawrence McVoy • McVoy Lawrence W

Priority 2004-07-27 • Filing 2004-07-27 • Publication 2009-02-02

607. Each **file-version** will have associated **metadata**, (FIG. 3 c), and that gets put into the patch 610. Next, the type of the **file** is checked 613, and if not binary, the **version** data is added to the patch 614, then check for more **files** to process 615. If none, loop back and get next **file-version**

Metadata structures for mass P2P file sharing

US • [US7558791B2](#) • Jin U. • Microsoft Corporation

Priority 2006-06-30 • Filing 2006-06-30 • Grant 2009-07-07 • Publication 2009-07-07

wherein each **metadata** ID further includes data defining **version** chains representing a **version** history comprising a history of all past **versions** of the root share folder and any folders and **files** contained with the root share folder as known by each matching peer including a most recent modification ...

Storing metadata inside file to reference shared version of file

WO EP US CN JP KR • [KR20140027182A](#) • 조승아 아담 테아셀즈 • 마이크로소프트 코퍼레이션

Priority 2011-04-26 • Filing 2012-04-26 • Publication 2014-03-06

Version Manager It includes, but, The **Version Manager** Determining whether the local **files** that are uploaded to the shared location and the local copy of the shared **file** is created and Generating a link to the shared local **version** of the **file** in the shared location, inserting **metadata** including the ...

Techniques for relating arbitrary metadata to media files

US • [US8065604B2](#) • Erik Jackson Blankinship • Massachusetts Institute Of Technology

Priority 2004-12-30 • Filing 2004-12-30 • Grant 2011-11-22 • Publication 2011-11-22

. If the user is not done (813), loop 806 is again executed. The program ends at stop 815. The first and second **files** may be stored locally to **metadata file** 611 or may be stored on remote servers. A Graphical User Interface for Viewing **Versions** Related by a **Metadata** Text **file** 611 - FIG. 9 FIG. 9

Computer system method and apparatus providing for various versions of a file ...

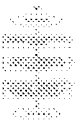
US • [US6751677A](#) • Steven T. Senator • Sun Microsystems, Inc.

Priority 1996-01-03 • Filing 1996-01-03 • Grant 1998-06-02 • Publication 1998-06-02



Various **versions** of a computer **file** are provided without requiring copying the **file** or logging changed data, so that the **files** have consistent user data. A program module responds to a system call argument and allocates another node in **file** system tables and copies **metadata** information from the ...

Storing and retrieving computer data files using an encrypted network drive ...



US • [US7506610B2](#) • Raghavendra Kulkarni • Pro Softnet Corporation

Priority 2005-02-08 • Filing 2006-05-10 • Grant 2009-03-17 • Publication 2009-03-17

Storing **file** headers in **file** index 26 rather than in many different data **files** 21 may facilitate quicker and more efficient retrieval of data **files** 21 because it may not be necessary to scan through as many data **files** to locate **metadata** or particular **files**. Further, storing separate **versions** of ...

Identifying authors of changes between multiple versions of a file



US • [US9297933B2](#) • James E. Bostick • International Business Machines Corporation

Priority 2006-10-10 • Filing 2006-10-10 • Grant 2015-12-09 • Publication 2015-12-09

instructions to, in response to detecting a difference between the selected segment of code and syntax in the first **version**, generate an output **file** by extracting, by the processor, a **metadata** entry associated with the first **version**, wherein the **metadata** entry associated with the first **version** ...

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L1 | 47 | (file\$1 and version\$1 and distribut\$4).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L2 | 4 | L1 AND ((G06F17/30132 OR G06F8/61 OR G06F8/65 OR G06F17/30176 OR G06F17/3023 OR G06F8/71).CPC.) and file\$1 and transfer\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L3 | 2 | L1 AND ((G06F17/30132 OR G06F8/61 OR G06F8/65 OR G06F17/30176 OR G06F17/3023 OR G06F8/71).CPC.) and file\$1 and transfer\$4 and (updat\$3 or modif\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L5 | 1 | "20020107808".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L6 | 1 | "20040128308".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L7 | 1 | "20050132204".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L8 | 1 | "20060062426".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L9 | 1 | "20060075225".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L10 | 1 | "20070162764".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L11 | 1 | "20070243860".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L12 | 1 | "20070265977".PN. | US-PGPUB | OR | OFF | 2019/05/16 14:19 |
| L17 | 17 | (distribut\$3 and file\$1 and version\$1 and device\$1 and copy).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L18 | 49 | (distribut\$3 and file\$1 and version\$1 and device\$1 and user\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|----|-----|------------------|
| L20 | 9 | L19 and (distribut\$3 adj\$1) and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L21 | 15 | L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|--|----|-----|------------------|
| L22 | 4 | <p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile</p> | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
|-----|---|--|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|---|----|-----|------------------|
| L23 | 4 | <p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile and device\$1</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/05/16 14:19 |
|-----|---|--|---|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|---|----|-----|------------------|
| L24 | 4 | <p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 modify\$3)</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/05/16 14:19 |
| L26 | 34 | <p>(distribut\$3 and file\$1 and version\$1 and mobile).ab. and @py<="2007"</p> | <p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p> | OR | OFF | 2019/05/16 14:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|----|-----|------------------|
| L27 | 1 | L26 AND ((G06F9/44536 OR G06F17/30194 OR G06F8/665 OR G06F8/68 OR G06F17/30477 OR G06F21/64 OR G06F3/0482 OR G06F3/1208 OR G06F3/122 OR G06F3/124 OR G06F3/1242 OR G06F3/1246 OR G06F3/1247 OR G06F3/1256 OR G06F3/1287 OR G06F3/1288 OR G06F3/1289 OR G06F3/1292 OR G06F3/167).CPC.) and transfer\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L29 | 10 | (mobile and device\$1 and file\$1 and transfer\$3).ti. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L30 | 10 | (mobile and device\$1 and file\$1 and transfer\$3 and version\$1).ab. and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L34 | 19 | L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and version\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L35 | 2 | L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and version\$1 and mobile | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L36 | 2 | L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and mobile | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|----|-----|------------------|
| L37 | 7 | (distribut\$3 and file\$1 and version\$1 and copy\$3).ab. and mobile and @py<="2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L39 | 26 | L38 and (version\$1 near5 id\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L41 | 1 | L39 AND ((G06F1/1632 OR G06F13/409 OR G06F1/1626 OR H04M3/42323 OR G06F21/62 OR G06F3/0482 OR H04M11/06 OR H04M1/725 OR H04M3/42314 OR G06F1/206 OR H04N1/00127 OR H04N1/00236 OR H04N2201/0049 OR G06F1/169 OR G06F1/1656 OR H04M1/2473 OR H01H2223/052 OR G06F3/03541 OR G06F3/03549 OR H04M11/066 OR H04N1/00339 OR H04N1/00392 OR H04N1/00538 OR G06F1/1635 OR G06F3/03543 OR H04L63/10 OR G06F3/0362 OR G06Q30/0601 OR H04N2201/0081 OR H04N2201/0082 OR G06F21/73 OR G06F2221/2129 OR G06F9/445 OR H04N2201/0093 OR G06F3/03545 OR G06F1/1688 OR G06F1/1698 OR G06F2211/007 OR G06F3/0485 OR G06F12/1466 OR G06F13/385 OR G06F1/20 OR G06F21/10 OR G06F21/31 OR G06F21/445 OR G06F21/57 OR G06F21/6218 OR G06F21/79 OR G06F21/82 OR G06F2200/201 OR G06F2211/1097 OR G06F2221/0733 OR G06F2221/0737 OR G06F2221/0759 OR G06F2221/2141 OR G06F3/0213 OR G06F3/0354 OR G06F3/04886 OR G06F3/16 OR G06F8/68). CPC.) and (modify\$3 same file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 14:19 |
| L43 | 42 | 42 and (receiv\$3 adj5 copy) | USPAT | OR | OFF | 2019/05/16 14:26 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|-------|----|-----|------------------|
| L44 | 37 | 43 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 | USPAT | OR | OFF | 2019/05/16 14:30 |
|-----|----|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|-------|----|-----|------------------|
| L45 | 19 | 43 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near\$5 file\$1) | USPAT | OR | OFF | 2019/05/16 14:30 |
|-----|----|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|-------|----|-----|------------------|
| L46 | 13 | 43 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near5 file\$1) and (transfer\$3 near5 file\$1) | USPAT | OR | OFF | 2019/05/16 14:31 |
|-----|----|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|-------|----|-----|------------------|
| L47 | 12 | 43 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near5 file\$1) and (transfer\$3 near5 file\$1) and (server\$1 near5 file\$1) | USPAT | OR | OFF | 2019/05/16 14:31 |
|-----|----|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|-------|----|-----|------------------|
| L48 | 2 | 43 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (modify\$3 near5 file\$1) and (transfer\$3 near5 file\$1) and (server\$1 near5 file\$1) and (client near5 file\$1) | USPAT | OR | OFF | 2019/05/16 14:31 |
|-----|---|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|-------|----|-----|------------------|
| L52 | 4 | 43 AND ((Y10S707/99953 OR G06F21/10 OR G06F2221/2135 OR G06Q20/12 OR G06Q20/1235 OR G06F2211/007 OR H04L2463/101 OR G06F21/86 OR G06F2221/0737 OR G06F2221/2101 OR G06Q20/02 OR G06Q20/24 OR H04L2209/60 OR H04L63/20 OR Y10S707/99939 OR G06F2221/2151 OR G06Q20/023 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR G06F21/31 OR G06F21/33 OR G06F2221/0797 OR H04L2209/56 OR H04L63/0442 OR G06F2221/2115 OR H04L63/10 OR H04L63/123 OR G06Q50/184 OR H04L9/3218 OR H04L9/3247 OR H04L9/3263 OR Y10S707/99931 OR Y10S707/99933 OR G06F12/1408 OR G06F21/6209 OR G06Q10/087 OR G06Q20/085 OR G06Q20/10 OR G06Q20/102 OR G06Q20/14 OR G06Q2220/16 OR G06Q30/0609 OR H04L63/04 OR H04L63/0435 OR H04L63/12 OR G06F16/00 OR G06F16/172 OR G06F16/1774 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/951 OR G06F17/2247 OR G06F17/227 OR G06F17/24 OR G06F21/572 OR G06F21/6245 OR G06Q20/389 OR G06Q30/0269 OR G06Q30/0277 OR H04L63/18 OR H04L67/02 OR H04L67/06 OR H04L67/1002 OR H04L67/1029 OR H04L9/3297).CPC.) and version\$1 and (file\$1 near5 metadata) | USPAT | OR | OFF | 2019/05/16 14:32 |
| L54 | 4 | (file\$1 and version\$1 and copy and modify\$3).ab. and @py<="20106" | USPAT | OR | OFF | 2019/05/16 14:47 |
| L55 | 1 | (file\$1 and version\$1 and copy and modify\$3).ab. and @py<="2006" | USPAT | OR | OFF | 2019/05/16 14:48 |
| L56 | 45 | (file\$1 and version\$1 and copy).ab. and @py<="2006" | USPAT | OR | OFF | 2019/05/16 14:49 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|-------|----|-----|------------------|
| L57 | 2 | 56 AND ((Y10S707/99953 OR Y10S707/99931 OR Y10S707/99954 OR G06F8/658 OR G06F16/10 OR Y10S707/99936 OR Y10S707/99942 OR Y10S707/99952 OR Y10S707/99933 OR Y10S707/99938 OR Y10S707/99945 OR G06F11/1464 OR Y10S707/99955 OR G06F11/1453 OR G06F21/565 OR G06Q30/06 OR H04L67/28 OR G06F11/1451 OR G06F11/1469 OR G06F16/178 OR G06F16/182 OR G06F16/1873 OR G06F21/10 OR G06F8/71 OR G06Q10/087 OR H04L29/06 OR H04L67/1095 OR Y10S707/959 OR G06F11/006 OR G06F11/10 OR G06F11/1435 OR G06F11/1448 OR G06F11/2066 OR G06F11/2071 OR G06F11/2079 OR G06F11/2082 OR G06F11/2094 OR G06F11/2097 OR G06F13/10 OR G06F13/105 OR G06F16/116 OR G06F16/1734 OR G06F16/1756 OR G06F16/1774 OR G06F16/1824 OR G06F16/184 OR G06F16/1844 OR G06F16/23 OR G06F16/2379 OR G06F16/9014 OR G06F16/93 OR G06F16/958 OR G06F1/24 OR G06F2003/0697 OR G06F21/31 OR G06F21/57 OR G06F21/575 OR G06F21/6281 OR G06F21/64 OR G06F2209/543 OR G06F2216/09 OR G06F2221/0744 OR G06F2221/2101 OR G06F2221/2105 OR G06F3/0601 OR G06F3/0605 OR G06F3/0658 OR G06F3/0677 OR G06F8/60 OR G06F8/61 OR G06F8/65 OR G06F8/66 OR G06F9/445 OR G06F9/44521 OR G06F9/453 OR G06F9/45537 OR G06F9/485 OR G06F9/542 OR H04L67/2842 OR H04L67/2852 OR H04L67/2876 OR H04L67/42 OR H04L69/08 OR H04N1/32122).CPC.) and (automatically near5 receiv\$3) | USPAT | OR | OFF | 2019/05/16 14:52 |
|-----|---|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|--|----|-----|------------------|
| L58 | 1 | 18 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (file\$1 near5 metadata) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 15:53 |
|-----|---|--|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|--|----|-----|------------------|
| L59 | 18 | 18 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (file\$1 near5 version\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 15:57 |
|-----|----|--|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|----|-----|------------------|
| L60 | 1 | 18 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (file\$1 near5 version\$1) and resum\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 15:57 |
|-----|---|---|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|--|----|-----|------------------|
| L61 | 17 | 18 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and server\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 15:58 |
|-----|----|---|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|----|-----|------------------|
| L62 | 1 | 18 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and server\$1 and (second near5 client\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 15:58 |
|-----|---|---|--|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|--|----|-----|------------------|
| L64 | 1 | 18 AND ((H04L69/329 OR G06F16/958 OR G06F21/10 OR G06Q10/10 OR H04L41/00 OR H04L67/1095 OR H04L67/10 OR H04L67/2823 OR H04L67/2828 OR H04L67/288 OR H04L67/289 OR H04L67/2895 OR H04L67/325 OR H04N21/2221 OR H04N21/2343 OR H04N21/6405 OR H04N21/6437 OR Y10S707/99939 OR Y10S707/99953 OR G06F8/60 OR G06F8/61 OR G06F9/44589 OR Y10S707/99938 OR A63F13/10 OR A63F13/12 OR A63F13/35 OR A63F13/63 OR A63F13/655 OR A63F13/798 OR A63F13/812 OR A63F2300/407 OR G06F16/182 OR G06F16/9574 OR G06F21/121 OR G06F21/51 OR G06F21/53 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2135 OR G06F2221/2137 OR G06F2221/2143 OR G06F2221/2145 OR G06F9/44 OR G06F9/4416 OR G06F9/453 OR G06Q20/04 OR G06Q20/12 OR G06Q20/1235 OR G06Q20/3825 OR G06Q30/06 OR G11B2020/1259 OR G11B20/00086 OR G11B20/00094 OR G11B20/0021 OR G11B20/00253 OR G11B2220/215 OR G11B2220/2537 OR H04H60/21 OR H04H60/23 OR H04H60/82 OR H04L29/06 OR H04L29/06027 OR H04L63/04 OR H04L63/08 OR H04L67/06 OR H04N1/00132 OR H04N1/00151 OR H04N1/2112 OR H04N1/2141 OR H04N1/2158 OR H04N1/2183 OR H04N2101/00 OR H04N21/2223 OR H04N21/2335 OR H04N21/2347 OR H04N21/252).CPC.) and (modify\$3 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 16:00 |
| L66 | 5 | (file\$1 and version\$1 and metadata).ti. and @py<"2007" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/05/16 16:07 |

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-------|------------------|---------|------------------|
| L2 | 96 | (file\$1 and version\$1 and network\$3).ab. and @py<="2007" | USPAT | OR | OFF | 2019/05/17 14:15 |
| L3 | 53 | L2 and (copy\$3 near5 file\$1) | USPAT | OR | OFF | 2019/05/17 14:15 |
| L4 | 43 | L2 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) | USPAT | OR | OFF | 2019/05/17 14:15 |
| L5 | 10 | L2 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1) | USPAT | OR | OFF | 2019/05/17 14:15 |
| L6 | 90 | (file\$1 and version\$1).ti. and @py<="2017" | USPAT | OR | OFF | 2019/05/17 14:18 |
| L7 | 33 | (file\$1 and version\$1).ti. and @py<="2007" | USPAT | OR | OFF | 2019/05/17 14:18 |
| L8 | 3 | 7 AND ((Y10S707/99954 OR Y10S707/99953 OR G06F16/10 OR Y10S707/99952 OR G06F8/71 OR G06F11/1435 OR G06F16/1873 OR Y10S707/99931 OR G06F11/1448 OR G06F16/178 OR G06F16/9574 OR G06F17/24 OR G06F21/6209 OR G06F21/6218 OR G06F21/6227 OR G06F2221/2147 OR Y10S707/99936 OR Y10S707/99942 OR G06F11/006 OR G06F11/10 OR G06F11/1466 OR G06F11/1662 OR G06F11/183 OR G06F11/187 OR G06F16/137 OR G06F16/182 OR G06F16/1865 OR G06F16/9014 OR G06F16/9577 OR G06F2003/0697 OR G06F21/57 OR G06F21/64 OR G06F2201/84 OR G06F2221/2107 OR G06F3/0482 OR G06F3/0601 OR G06F3/0626 OR G06F3/0643 OR G06F3/0674 OR G06F3/1204 OR G06F3/1244 OR G06F3/1284 OR G06F3/1285 OR G06F8/61 OR G06F8/65 OR G06F9/451 OR G06F9/454).CPC.) and metadata | USPAT | OR | OFF | 2019/05/17 14:20 |
| L10 | 51 | 9 and (file\$1 near5 metadata) | USPAT | OR | OFF | 2019/05/17 14:49 |

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|--|-------|----|-----|------------------|
| L11 | 12 | 10 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority | USPAT | OR | OFF | 2019/05/17 14:50 |
|-----|----|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|-------|----|-----|------------------|
| L12 | 9 | 10 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1 | USPAT | OR | OFF | 2019/05/17 14:50 |
|-----|---|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|---|-------|----|-----|------------------|
| L13 | 9 | 10 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1 and server\$1 | USPAT | OR | OFF | 2019/05/17 14:51 |
|-----|---|---|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|---|--|-------|----|-----|------------------|
| L14 | 5 | 10 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1 and server\$1 and resum\$3 | USPAT | OR | OFF | 2019/05/17 14:51 |
|-----|---|--|-------|----|-----|------------------|

EAST Search History (Prior Art)

| | | | | | | |
|-----|----|---|-------|----|-----|------------------|
| L15 | 4 | 10 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1 and server\$1 and resum\$3 and automatic\$3 | USPAT | OR | OFF | 2019/05/17 14:51 |
| L17 | 22 | (document\$1 and version\$1 and copy).ab. and @py<="2007" | USPAT | OR | OFF | 2019/05/17 15:32 |
| L18 | 21 | (version\$1 and document\$1).ti. and @py<="2007" | USPAT | OR | OFF | 2019/05/17 15:37 |

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /s.c./

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

1

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | AR 6,463,463 | 10/2002 | GODFREY et al. | | | |
| | BR 6,504,994 | 01/2003 | KAWAMURA et al. | | | |
| | CR 6,505,200 | 01/2003 | IMS et al. | | | |
| | DR 6,611,849 | 08/2003 | RAFF et al. | | | |
| | ER 6,671,700 | 12/2003 | CREEMER et al. | | | |
| | FR 6,708,221 | 03/2004 | MENDEZ et al. | | | |
| | GR 6,757,696 | 06/2004 | MULTER et al. | | | |
| | HR 6,760,759 | 07/2004 | CHAN | | | |
| | IR 6,810,405 | 10/2004 | LARUE et al. | | | |
| | JR 6,829,622 | 12/2004 | BEYDA | | | |
| | KR 6,874,037 | 03/2005 | ABRAM et al. | | | |
| | LR 6,931,454 | 08/2005 | DESHPANDE et al. | | | |
| | MR 6,990,522 | 01/2006 | WU | | | |
| | NR 7,024,428 | 04/2006 | HUANG et al. | | | |
| | OR 7,054,594 | 05/2006 | BLOCH et al. | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| | | | | Enclosed | No |
| PR | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|----|--|--|--|--|--|
| QR | | | | | |
| RR | | | | | |
| SR | | | | | |
| TR | | | | | |

Examiner /Srirama Channavajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /s.c./

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. 028027H 0504053 /

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

2

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|------------------|--------------|------------------------------------|
| | UR | 7,065,658 | 06/2006 | BARABAN et al. | | |
| | VR | 7,089,307 | 08/2006 | ZINTEL et al. | | |
| | WR | 7,155,488 | 12/2006 | LUNSFORD et al. | | |
| | XR | 7,243,163 | 07/2007 | FRIEND et al. | | |
| | YR | 7,269,433 | 09/2007 | VARGAS et al. | | |
| | ZR | 7,290,244 | 10/2007 | PECK et al. | | |
| | AA | 7,340,534 | 03/2008 | CAMERON et al. | | |
| | BB | 7,398,327 | 07/2008 | LEE | | |
| | CC | 7,415,615 | 08/2008 | SKYGEBJER | | |
| | DD | 7,457,631 | 11/2008 | YACH et al. | | |
| | EE | 7,467,353 | 12/2008 | KURLANDER et al. | | |
| | FF | 7,483,925 | 01/2009 | KOSKIMIES et al. | | |
| | GG | 7,526,575 | 04/2009 | RABBERS et al. | | |
| | HH | 7,574,711 | 08/2009 | ZONDERVAN et al. | | |
| | IIR | 7,584,186 | 09/2009 | CHEN et al. | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| | | | | Enclosed | No |
| JJR | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|-----|--|--|--|--|--|
| KKF | | | | | |
| LLR | | | | | |
| MM | | | | | |
| NN | | | | | |

Examiner /Srirama Channavaajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

0504053

Inventor(s): Michael R. MANZANO

Appln No.: New

Filing Date: March 22, 2019

10

Examiner: Unassigned

Group Art Unit: Unassigned

| Examiner's Initials* | | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|----------------------|-----|-----------------|--------------|--------------------------------------|-------|-----------|------------------------------|
| | OOI | 7,587,446 | 09/2009 | ONYON et al. | | | |
| | PPF | 7,613,773 | 11/2009 | WATT | | | |
| | QQI | 7,639,116 | 12/2009 | SAUNDERS | | | |
| | RRF | 7,657,271 | 02/2010 | KIM | | | |
| | SSF | 7,680,885 | 03/2010 | SCHAUSER et al. | | | |
| | TTF | 7,752,166 | 07/2010 | QUINLAN et al. | | | |
| | UUF | 7,761,414 | 07/2010 | FREEDMAN | | | |
| | VVF | 7,895,334 | 02/2011 | TU et al. | | | |
| | WWI | 7,987,420 | 07/2011 | KLOBA et al. | | | |
| | XXF | 8,009,966 | 08/2011 | BLOOM et al. | | | |
| | YYF | 8,112,549 | 02/2012 | SRINIVASAN et al. | | | |
| | ZZF | 8,244,288 | 08/2012 | CHIPCHASE | | | |
| | AAI | 8,321,534 | 11/2012 | ROSKIND et al. | | | |
| | BBF | 8,370,423 | 02/2013 | OZZIE et al. | | | |
| | CCF | 8,386,558 | 02/2013 | SCHLEIFER et al. | | | |

| | | Document Number | Date MM/YYYY | Country | Inventor Name | Abstract | | Readily Available | |
|--|-----|-----------------|--------------|---------|---------------|----------|----|-------------------|----|
| | | | | | | Enclosed | No | Enclose | No |
| | DDI | | | | | | | | |

| | | | | | |
|--|-----|--|--|--|--|
| | EEE | | | | |
| | FFF | | | | |
| | GGG | | | | |
| | HHH | | | | |

| | |
|------------------|------------|
| Date Considered: | 05/16/2019 |
|------------------|------------|

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027 0504053

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.C./
**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

4

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | IIIR 2003/0038842 | 02/2003 | PECK et al. | | | |
| | JJJ 2003/0125057 | 07/2003 | PESOLA | | | |
| | KKK 2003/0135565 | 07/2003 | ESTRADA | | | |
| | LLL 2004/0049345 | 03/2004 | MCDONOUGH et al. | | | |
| | MM 2005/0097225 | 05/2005 | GLATT et al. | | | |
| | NN 2005/0220080 | 10/2005 | RONKAINEN et al. | | | |
| | OO 2006/0058907 | 03/2006 | SUDERMAN | | | |
| | PP 2006/0189348 | 08/2006 | MONTULLI et al. | | | |
| | QQ 2007/0014314 | 01/2007 | O'NEIL | | | |
| | RR 2007/0191057 | 08/2007 | KAMADA | | | |
| | SS 2007/0238440 | 10/2007 | SENGUPTA et al. | | | |
| | TT 2008/0005280 | 01/2008 | ADAMS | | | |
| | UU 2008/0086494 | 04/2008 | HELLER et al. | | | |
| | VV 2008/0168526 | 07/2008 | ROBBIN et al. | | | |
| | WW 2008/0288578 | 11/2008 | SILFVERBERG | | | |
| | XX 2009/0063711 | 03/2009 | FINKELSTEIN | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| YYY | | | | Enclosed | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|-----|--|--|--|--|--|
| ZZZ | | | | | |
| AAA | | | | | |
| BBB | | | | | |
| CCC | | | | | |

Examiner /Srirama Channavajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appl. No.: New

Through: /s.c./

Filing Date: March 22, 2019

Date: March 22, 2019

Page

5

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| DDI | | | | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| EEE | | | | Enclosed | No |
| | | | | No | Enclose |
| | | | | No | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|-----|---|--|--|--|--|
| FFF | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040804020435/http://www.foldershare.com:80/ ; August 4, 2004. | | | | |
| GGG | FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030808183932/http://www.foldershare.com:80/ ; August 8, 2003. | | | | |
| HHH | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040814015727/http://www.foldershare.com:80/ ; August 14, 2004. | | | | |
| III | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040820052105/http://www.foldershare.com:80/ ; August 20, 2004. | | | | |
| JJJ | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041211020957/http://foldershare.com:80/ ; December 11, 2004. | | | | |
| KKK | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041217041726/http://foldershare.com:80/ ; December 17, 2004. | | | | |
| LLL | FolderShare; Your Smart File Transfer Solution; < https://web.archive.org/web/20031220151508/http://www.foldershare.com:80/ ; December 20, 2003. | | | | |
| MMM | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041230211050/http://www.foldershare.com:80/ ; December 30, 2004. | | | | |
| NNN | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040701113739/http://foldershare.com:80/ ; July 1, 2004. | | | | |
| OOO | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040711062548/http://www.foldershare.com:80/ ; July 11, 2004. | | | | |

Examiner /Srirama Channavajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH /S.C./
Filing Date: March 22, 2019

Date: March 22, 2019

Page

6

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | PPR | | | | | |
| | QQQ | | | | | |
| | RRR | | | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| | | | | Enclosed | No |
| SSS | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | |
|-----|---|
| TTT | FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030722054342/http://foldershare.com:80/>; July 22, 2003. |
| UUU | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040730030655/http://www.foldershare.com:80/>; July 30, 2004. |
| VVV | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040603205113/http://www.foldershare.com:80/>; June 3, 2004. |
| WWW | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040613161906/http://www.foldershare.com:80/>; June 13, 2004. |
| XXX | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040629075057/http://www.foldershare.com:80/>; June 29, 2004. |
| YYY | FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; <https://web.archive.org/web/20040316235151/http://foldershare.com:80/>; March 16, 2004. |
| ZZZ | FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; <https://web.archive.org/web/20040325034239/http://www.foldershare.com:80/>; March 25, 2004. |
| AAA | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040512211417/http://www.foldershare.com:80/>; May 12, 2004. |
| BBB | FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030531180252/http://www.foldershare.com:80/>; May 31, 2003. |
| CCC | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041104031510/http://www.foldershare.com:80/>; November 4, 2004. |

Examiner /Srirama Channavajjala/

Date Considered:

05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. Filing Date: March 22, 2019

Date: March 22, 2019

Page

7

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| DDI | | | | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| EEE | | | | Enclosed | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|-------|--|--|--|--|--|
| FFF | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041117092357/http://www.foldershare.com:80/ >; November 17, 2004. | | | | |
| GGG | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041123085254/http://www.foldershare.com:80/ >; November 23, 2004. | | | | |
| HHH | FolderShare; Your Files Anywhere; < https://web.archive.org/web/20031128143634/http://foldershare.com:80/ >; November 28, 2003. | | | | |
| IIIII | FolderShare; Your Files Anywhere; < https://web.archive.org/web/20031001071631/http://foldershare.com:80/ >; October 1, 2003. | | | | |
| JJJ | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041012083127/http://www.foldershare.com:80/ >; October 12, 2004. | | | | |
| KKK | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041029085820/http://www.foldershare.com:80/ >; October 29, 2004. | | | | |
| LLL | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040901034646/http://www.foldershare.com:80/ >; September 1, 2004. | | | | |
| MMM | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040909075254/http://www.foldershare.com:80/ >; September 9, 2004. | | | | |
| NNN | FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030920051943/http://www.foldershare.com:80/ >; September 20, 2003. | | | | |
| OOO | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040924032146/http://www.foldershare.com:80/ >; September 24, 2004. | | | | |

Examiner /Srirama Channavajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. Filing Date: March 22, 2019

Date: March 22, 2019

Page

8

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|----------|--------------|------------------------------------|
| | PPF | 2006/0074985 | 04/2006 | WOLFISH | | |
| | QQ | 2006/0143129 | 06/2006 | HOLM | | |
| | RRF | 2004/0133629 | 07/2004 | REYNOLDS | | |
| | SS | 2002/0035697 | 03/2002 | MCCURDY | | |
| | TTT | 2003/0028514 | 02/2003 | LORD | | |
| | UUU | 2003/0078946 | 04/2003 | COSTELLO | | |
| | VV | 2007/0180084 | 08/2007 | MOHANTY | | |
| | WW | 9,143,561 | 09/2015 | MANZANO | | |
| | XX | 2007/0016629 | 01/2007 | REINSCH | | |
| | YY | 5,806,078 | 09/1998 | HUG | | |
| | ZZZ | 2007/0027936 | 02/2007 | STAKUTIS | | |
| | AA | 2008/0005114 | 01/2008 | LI | | |
| | BBE | 5,909,581 | 06/1999 | PARK | | |
| | CC | 2004/0158817 | 08/2004 | OKACHI | | |
| | DD | 2009/0013009 | 01/2009 | NAKAYAMA | | |
| | EEE | 2006/0168118 | 07/2006 | GODLIN | | |
| | FFF | 2006/0129627 | 06/2006 | PHILLIPS | | |

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | | Abstract | | Readily Available | |
|--------------------------|--------|-------------------|--------------|---------|---------------|----------|----|-------------------|----|
| | | Document Number | Date MM/YYYY | Country | Inventor Name | | | | |
| | | | | | | Enclosed | No | Enclose | No |
| | GG | WO 98/56149 A1 | 12/1998 | WO | GENELL | | | | |
| | HH | WO 2007/047302 A2 | 04/2007 | WO | CHEN et al. | | | | |
| | IIIIII | EP 1 130 511 A2 | 09/2001 | EP | MULTER | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|-----|--|--|--|--|--|
| JJJ | | | | | |
| KKK | | | | | |
| LLL | | | | | |
| MM | | | | | |

Examiner /Srirama Channavajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. 023027. 0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

9

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|----------------------|-----------------|--------------|--------------------------------------|-------|-----------|------------------------------|
| NN | 7,325,038 | 01/2008 | Wang | | | |
| OO | 7,260,646 | 08/2007 | Stefanik et al. | | | |
| PP | 2005/0091316 | 04/2005 | Ponce et al. | | | |
| QQ | 2007/0180084 | 08/2007 | Mohanty | | | |
| RR | 2002/0026478 | 02/2002 | Rodgers et al. | | | |
| SS | 2007/0027936 | 02/2007 | Stakutis et al. | | | |
| TT | 2008/0005114 | 01/2008 | Li | | | |
| UU | 2004/0172424 | 09/2004 | Edelstein et al. | | | |
| VV | 2013/0226871 | 08/2013 | Sarnowski | | | |
| WW | 2004/0107225 | 06/2004 | Rudoff | | | |
| XX | 2006/0010150 | 01/2006 | Shaath et al. | | | |
| YY | 5,600,834 | 02/1997 | Howard | | | |
| ZZ | 5,806,078 | 09/1998 | Hug et al. | | | |
| AA | 6,449,624 | 09/2002 | Hammack et al. | | | |
| BB | 2003/0028542 | 02/2003 | Muttik et al. | | | |
| CC | 6,026,414 | 02/2000 | Anglin | | | |
| DD | 6,154,817 | 11/2000 | Mohan et al. | | | |
| EE | 6,260,069 | 07/2001 | Anglin | | | |
| FF | 2002/0087588 | 07/2002 | McBride et al. | | | |
| GG | 6,606,646 | 08/2003 | Feigenbaum | | | |
| HH | 2004/0093361 | 05/2004 | Therrien et al. | | | |
| II | 7,136,934 | 11/2006 | Carter et al. | | | |
| JJ | 2007/0100913 | 05/2007 | Sumner et al. | | | |
| KK | 7,224,973 | 05/2007 | Tsutazawa et al. | | | |
| LL | 7,788,303 | 08/2010 | Mikesell et al. | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|-----------------|--------------|---------|---------------|------------------|-------------------------------|
| | | | | Enclosed | No |
| | | | | Enclose | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner /Srirama Channavajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. Filing Date: March 22, 2019

Date: March 22, 2019

Page

10

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | MM8,565,729 | 10/2013 | MOSELER et al. | | | |
| | NN7,415,588 | 08/2008 | HONG et al. | | | |
| | OO2009/0282050 | 11/2009 | THOMAS et al. | | | |
| | PP | | | | | |
| | QQ | | | | | |
| | RR | | | | | |
| | SS | | | | | |

FOREIGN PATENT DOCUMENTS

| | Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | | Translation Readily Available | |
|--|--------------------|-----------------|---------|---------------|---------------------|----|-------------------------------------|----|
| | | | | | Enclosed | No | Enclose | No |
| | TT | | | | | | | |
| | UU | | | | | | | |
| | VV | | | | | | | |
| | WW | | | | | | | |
| | XX | | | | | | | |
| | YY | | | | | | | |
| | ZZ | | | | | | | |
| | AA | | | | | | | |
| | BB | | | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | | |
|--|----|---|--|--|--|--|
| | CC | MARSHALL, M., "The Y Combinator List," Venture Beat, August 2007, Retrieved from the Internet: URL: <https://venturebeat.com/2007/08/16/the-y-combinator-list/>, 4 pages. | | | | |
| | DD | JARVIS, A., "Dropbox pitch deck to raise seed capital investment, " Medium, March 2018, Retrieved from the Internet: URL: <https://medium.com/@adjblog/dropbox-pitch-deck-to-raise-seed-capital-investment-6a6cd6517e56>, 12 pages. | | | | |
| | EE | | | | | |
| | FF | | | | | |

Examiner /Srirama Channavajjala/

Date Considered: 05/16/2019

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Box & Dropbox Exhibit 1012
Page 366

| Innovation Plus Patent & Technology Solutions | |
|--|--|
| Discover | files versions transfer metadata + 0 mode 0 filters |
| Visualize | Country Results Published Sort: Relevance Cut-off: None On-map: None |
| US20090130113 [01-SEP-2009] / US20090130113 [01-SEP-2009] | |
| 37 Sparse metadata segment tree for efficient file storage operations in evolving backup workloads | |
| Embodiments are directed to a method of minimizing latency and input/output (I/O) operations in a data storage system by defining a sparse metadata segment tree to identify changed data blocks, wherein a full version of the tree is stored in a memory and modified versions of the tree are stored in... | |
| CURRENT ASSIGNEES: EMC IP HOLDING CORP. US5946263 [US PATENTS] 13-MAR-2016 ***** | |
| 38 Method, apparatus and system for performing update processing on service announcement file | |
| The present invention provides a method, an apparatus and a system for performing update processing on a service announcement file. The method comprises: a terminal acquires first version information corresponding to a current version SA file delivered by a network side device; the terminal... | |
| CURRENT ASSIGNEES: ZTE CORP WO2016065892A1 [WIPO APPLICATIONS] 09-JUN-2016 ***** | |
| 39 Storing metadata inside file to reference shared version of file | |
| A link to a shared version of a local file is inserted into metadata of the local file. The local file may be a copy of a shared file and/or a local file that is designated to be shared. For example, when a local file is uploaded to a shared location for collaboration, a link to the shared location... | |
| CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC US20120279261 [US APPLICATIONS] 04-NOV-2012 ***** | |
| 40 Cloud Based Operating and Virtual File System | |
| A method for managing a virtual distributed file system, the method comprising: maintaining, by a master device located in a cloud computing environment, a metadata data structure that comprises metadata about locations of most updated versions of multiple file portions and of security levels of the... | |
| CURRENT ASSIGNEES: SAPPHIRE DATA NETWORKS INC US2016252671 [US APPLICATIONS] 13-OCT-2016 ***** | |
| 41 Transferring data and storing metadata across a network | |
| Data is now able to be transferred back and forth between computer systems which have disparate file systems, e.g., between a computer having a hierarchical file system and a computer having a non-hierarchical file system. The differences, however, are not limited to the file storage system. Data may... | |
| CURRENT ASSIGNEES: RHTL BUSINESS MACHINES CORP US7517212 [US PATENTS] 10-NOV-2009 ***** | |

Inventor Information for 16/361641

| Inventor Name | City | State/Country |
|---------------------|---------|---------------|
| MANZANO, MICHAEL R. | SEATTLE | WASHINGTON |

| | | | | | | | | | | | |
|------------|----------|---------------|-----------------|-----------------|--------------|------------------|------------|---------|------|-----------|--------|
| Appln Info | Comments | Petition Info | Atty/Agent Info | Continuity Data | Foreign Data | Inventors | Applicants | Address | Fees | Post Info | Pre Gr |
|------------|----------|---------------|-----------------|-----------------|--------------|------------------|------------|---------|------|-----------|--------|

Search Another: Application # or Patent # or International Registration #

PCT / / or PG PUBS #

Attorney Docket #

Bar Code #

To Go BACK Use BACK Button on Your BROWSER Tool Bar

Back to [PALM](#) [ASSIGNMENT](#) [DASP](#) Home page

PLUS Search Results for S/N 16361641, Searched Tue May 14 14:28:53 EDT 2019

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

| | | |
|----------------|----------------|------------|
| 9143561 99 | 20160132927 87 | 4485300 77 |
| 10067942 99 | 20160140647 87 | 4497128 77 |
| 10289607 99 | 20180204182 87 | |
| 20090138528 99 | 7568001 80 | |
| 20160012067 99 | 20040054743 80 | |
| 20180307698 99 | 5550746 78 | |
| 5369764 89 | 5410589 77 | |
| 5634091 89 | 5533103 77 | |
| 5664207 89 | 5805831 77 | |
| 5721826 89 | 5995944 77 | |
| 5793938 89 | 6098054 77 | |
| 5819274 89 | 6108697 77 | |
| 6134707 89 | 5319705 77 | |
| 6429947 89 | 5325290 77 | |
| 6550061 89 | 5327341 77 | |
| 6636864 89 | 5440401 77 | |
| 7421444 89 | 5654738 77 | |
| 7450734 89 | 5682481 77 | |
| 9537949 89 | 5722893 77 | |
| 20060018506 89 | 5737726 77 | |
| 20060115108 89 | 5761667 77 | |
| 20150089022 89 | 5875110 77 | |
| 20150154231 89 | 5915253 77 | |
| 20050114658 88 | 5937406 77 | |
| 5771354 87 | 5991746 77 | |
| 5812398 87 | 6005569 77 | |
| 5901228 87 | 6011758 77 | |
| 6202199 87 | 6029153 77 | |
| 6286047 87 | 6047060 77 | |
| 6327579 87 | 6108004 77 | |
| 6389541 87 | 6119051 77 | |
| 6411943 87 | 6122631 77 | |
| 6460163 87 | 6208338 77 | |
| 7444374 87 | 6230173 77 | |
| 8732250 87 | 6301660 77 | |
| 9892273 87 | 6850950 77 | |
| 20010054004 87 | 20020174010 77 | |
| 20020022969 87 | 20030037187 77 | |
| 20050138081 87 | 4034411 77 | |
| 20050162670 87 | 4145745 77 | |
| 20050246341 87 | 4109238 77 | |
| 20060189878 87 | 4274139 77 | |
| 20070094321 87 | 4288658 77 | |
| 20070094365 87 | RE30821 77 | |
| 20070094389 87 | 4324484 77 | |
| 20070094391 87 | 4423448 77 | |
| 20140279868 87 | 4459663 77 | |
| 20150379291 87 | 4468728 77 | |
| 20160104130 87 | 4484241 77 | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 16/361,641 | 03/22/2019 | Michael R. MANZANO | 023027-0504053 | 7093 |

909 7590 04/22/2019
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

| |
|----------|
| EXAMINER |
|----------|

| ART UNIT | PAPER NUMBER |
|----------|--------------|
| 2157 | |

| NOTIFICATION DATE | DELIVERY MODE |
|-------------------|---------------|
| 04/22/2019 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

| | | | |
|---|--|--|--|
| <i>Decision Granting Request for Prioritized Examination (Track I)</i> | Application No. 16/361,641 | Applicant(s) MANZANO, Michael R. | |
| | Examiner CHERYL P GIBSON BAYLOR | Art Unit OPET | AIA (First Inventor to File) Status No |
| <p>1. THE REQUEST FILED <u>22 March 2019</u> IS GRANTED .</p> <p>The above-identified application has met the requirements for prioritized examination</p> <p>A. <input checked="" type="checkbox"/> for an original nonprovisional application (Track I).</p> <p>B. <input type="checkbox"/> for an application undergoing continued examination (RCE).</p> <p>2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:</p> <p>A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply;</p> <p>B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim;</p> <p>C. filing a <u>request for continued examination</u> ;</p> <p>D. filing a notice of appeal;</p> <p>E. filing a request for suspension of action;</p> <p>F. mailing of a notice of allowance;</p> <p>G. mailing of a final Office action;</p> <p>H. completion of examination as defined in 37 CFR 41.102; or</p> <p>I. abandonment of the application.</p> <p>Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.</p> | | | |
| /CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET | | | |

| PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875 | | | | | | Application or Docket Number 16/361,641 | | | | |
|--|---|----------------------------------|----------|------------------------------------|---------------|--|--------------------|-------------------------------|--------------------|--------------------|
| APPLICATION AS FILED - PART I | | | | | | | | | | |
| (Column 1) | | (Column 2) | | SMALL ENTITY | | OR OTHER THAN SMALL ENTITY | | | | |
| FOR | NUMBER FILED | NUMBER EXTRA | RATE(\$) | FEE(\$) | | RATE(\$) | FEE(\$) | | | |
| BASIC FEE (37 CFR 1.16(a), (b), or (c)) | N/A | N/A | N/A | 75 | | N/A | | | | |
| SEARCH FEE (37 CFR 1.16(k), (l), or (m)) | N/A | N/A | N/A | 330 | | N/A | | | | |
| EXAMINATION FEE (37 CFR 1.16(o), (p), or (q)) | N/A | N/A | N/A | 380 | | N/A | | | | |
| TOTAL CLAIMS (37 CFR 1.16(j)) | 20 | minus 20 = * | x 50 = | 0.00 | OR | | | | | |
| INDEPENDENT CLAIMS (37 CFR 1.16(h)) | 3 | minus 3 = * | x 230 = | 0.00 | | | | | | |
| APPLICATION SIZE FEE (37 CFR 1.16(s)) | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). | | | 0.00 | | | | | | |
| MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) | | | | 0.00 | | | | | | |
| | | | TOTAL | 785 | | TOTAL | | | | |
| * If the difference in column 1 is less than zero, enter "0" in column 2. | | | | | | | | | | |
| APPLICATION AS AMENDED - PART II | | | | | | | | | | |
| (Column 1) | | (Column 2) | | (Column 3) | | SMALL ENTITY | | OR OTHER THAN SMALL ENTITY | | |
| AMENDMENT A | | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$) | ADDITIONAL FEE(\$) | | RATE(\$) | ADDITIONAL FEE(\$) |
| | Total (37 CFR 1.16(i)) | * | Minus | ** | = | x | = | OR | x | = |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | x | = | OR | x | = |
| | Application Size Fee (37 CFR 1.16(s)) | | | | | | | OR | | |
| | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | OR | | |
| | | | | | | TOTAL ADD'L FEE | | OR | TOTAL ADD'L FEE | |
| AMENDMENT B | | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$) | ADDITIONAL FEE(\$) | | RATE(\$) | ADDITIONAL FEE(\$) |
| | Total (37 CFR 1.16(i)) | * | Minus | ** | = | x | = | OR | x | = |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | x | = | OR | x | = |
| | Application Size Fee (37 CFR 1.16(s)) | | | | | | | OR | | |
| | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | OR | | |
| | | | | | | TOTAL ADD'L FEE | | OR | TOTAL ADD'L FEE | |
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1. | | | | | | | | | | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NUMBER | FILING or 371(c) DATE | GRP ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO | TOT CLAIMS | IND CLAIMS |
|-----------------------|--------------------------|-----------------|---------------|-----------------|------------|------------|
| 16/361,641 | 03/22/2019 | | 785 | 023027-0504053 | 20 | 3 |

CONFIRMATION NO. 7093

FILING RECEIPT

909

Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102



Date Mailed: 04/09/2019

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Michael R. MANZANO, Seattle, WA;

Applicant(s)

TOPIA TECHNOLOGY, INC., Tacoma, WA;

Power of Attorney: The patent practitioners associated with Customer Number 00909

Domestic Priority data as claimed by applicant

This application is a CON of 16/017,348 06/25/2018
which is a CON of 14/860,289 09/21/2015 PAT 10067942
which is a CON of 12/267,852 11/10/2008 PAT 9143561
which claims benefit of 60/986,896 11/09/2007

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 04/05/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/361,641**

Projected Publication Date: 07/18/2019

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | |
|---|--|--|--|
| UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i> | | Attorney Docket No. 023027- 0504053 | |
| | | First Named Inventor Michael R. Manzano | |
| | | Title ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | |
| | | Priority Mail Express® Label No. | |

| | | | |
|--|--|---|--|
| APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i> | | ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 | |
| 1. <input type="checkbox"/> Fee Transmittal Form (PTO/SB/17 or equivalent) 2. <input checked="" type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27 3. <input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent. 4. <input checked="" type="checkbox"/> Specification [Total Pages <u>25</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement) 5. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>3</u>] 6. Inventor's Oath or Declaration [Total Pages <u>2</u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> A copy from a prior application (37 CFR 1.63(d)) 7. <input checked="" type="checkbox"/> Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix) <input type="checkbox"/> Landscape Table on CD 9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) a. <input type="checkbox"/> Computer Readable Form (CRF) b. <input type="checkbox"/> Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies | | ACCOMPANYING APPLICATION PAPERS 10. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) Name of Assignee _____ 11. <input checked="" type="checkbox"/> 37 CFR 3.73(c) Statement <input checked="" type="checkbox"/> Power of Attorney (when there is an assignee) 12. <input type="checkbox"/> English Translation Document (if applicable) 13. <input checked="" type="checkbox"/> Information Disclosure Statement (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached 14. <input type="checkbox"/> Preliminary Amendment 15. <input type="checkbox"/> Return Receipt Postcard (MPEP § 503) (Should be specifically itemized) 16. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 17. <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. <input checked="" type="checkbox"/> Other: <u>Track One Request</u> _____ _____ _____ _____ | |

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
 (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

| | | | | | |
|--|--|-----------------|--|-----------------------------------|--|
| 19. CORRESPONDENCE ADDRESS | | | | | |
| <input checked="" type="checkbox"/> The address associated with Customer Number: <u>00909</u> OR <input type="checkbox"/> Correspondence address below | | | | | |
| Name | | | | | |
| Address | | | | | |
| City | | State | | Zip Code | |
| Country | | Telephone | | Email | |
| Signature | | /Ngai B. Zhang/ | | Date | |
| | | | | March 22, 2019 | |
| Name (Print/Type) | | Ngai B. Zhang | | Registration No. (Attorney/Agent) | |
| | | | | 65473 | |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

| Application Number: | | | | |
|---|---|----------|--------|----------------------|
| Filing Date: | | | | |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |
| First Named Inventor/Applicant Name: | Michael R. MANZANO | | | |
| Filer: | Ngai Bing Zhang/Maggie Barham | | | |
| Attorney Docket Number: | 023027-0504053 | | | |
| Filed as Large Entity | | | | |
| Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a) | | | | |
| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
| Basic Filing: | | | | |
| UTILITY APPLICATION FILING | 1011 | 1 | 300 | 300 |
| UTILITY SEARCH FEE | 1111 | 1 | 660 | 660 |
| UTILITY EXAMINATION FEE | 1311 | 1 | 760 | 760 |
| REQUEST FOR PRIORITIZED EXAMINATION | 1817 | 1 | 4000 | 4000 |
| Pages: | | | | |
| Claims: | | | | |
| Miscellaneous-Filing: | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--|----------|----------|--------|----------------------|
| PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL | 1504 | 1 | 0 | 0 |
| PROCESSING FEE, EXCEPT PROV. APPLS. | 1830 | 1 | 140 | 140 |
| Petition: | | | | |
| Patent-Appeals-and-Interference: | | | | |
| Post-Allowance-and-Post-Issuance: | | | | |
| Extension-of-Time: | | | | |
| Miscellaneous: | | | | |
| Total in USD (\$) | | | | 5860 |

Electronic Acknowledgement Receipt

| | |
|---|---|
| EFS ID: | 35503082 |
| Application Number: | 16361641 |
| International Application Number: | |
| Confirmation Number: | 7093 |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK |
| First Named Inventor/Applicant Name: | Michael R. MANZANO |
| Customer Number: | 909 |
| Filer: | Ngai Bing Zhang/Maggie Barham |
| Filer Authorized By: | Ngai Bing Zhang |
| Attorney Docket Number: | 023027-0504053 |
| Receipt Date: | 22-MAR-2019 |
| Filing Date: | |
| Time Stamp: | 13:33:59 |
| Application Type: | Utility under 35 USC 111(a) |

Payment information:

| | |
|--|-----------------------------|
| Submitted with Payment | yes |
| Payment Type | DA |
| Payment was successfully received in RAM | \$5860 |
| RAM confirmation Number | 032219INTEFSW00011845033975 |
| Deposit Account | |
| Authorized User | |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

| | | | | | |
|-----------------|--|---|---|------------------|------------------|
| | | | | | |
| File Listing: | | | | | |
| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
| 1 | TrackOne Request | 023027-0504053_Track1_Request.pdf | 124629 | no | 2 |
| | | | 5cbd7405398f40664dd220ae35426d8573e9a9a9 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 2 | Application Data Sheet | 023027-0504053_ADS.pdf | 1256408 | no | 8 |
| | | | 021dc9a5c5859a11dcc21b273efe4e0b65eddcb47 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 3 | Power of Attorney | 023027-0504053_373_Statement_POA.pdf | 351510 | no | 6 |
| | | | 4a6401967aaf8740aef5f61a472f628be01dc2c2 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 4 | Oath or Declaration filed | 023027-0504053_Dec_Substitute_Statement.pdf | 137583 | no | 2 |
| | | | d7ec2c7129c97d9327e2e84c4e8a37fbd4afb77 | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 5 | Transmittal Letter | 023027-0504053_IDS_Transmittal.pdf | 93113 | no | 1 |
| | | | e9bf5d70b1403b7f789baca69c71c182fe3f611d | | |
| Warnings: | | | | | |
| Information: | | | | | |
| 6 | Information Disclosure Statement (IDS) Form (SB08) | 023027-0504053_PTO-1449.pdf | 684550 | no | 10 |
| | | | a849b3ce32af1899c57501bda3d4256f20b01420 | | |
| Warnings: | | | | | |
| Information: | | | | | |

| | | | | | |
|---|--|--|--|------------|----|
| This is not an USPTO supplied IDS fillable form | | | | | |
| 7 | | 023027-0504053_Specification_final.pdf | 242804 18ff4346514b7eb00dd6df684e8264ee074dc93c | yes | 25 |
| | Multipart Description/PDF files in .zip description | | | | |
| | Document Description | | Start | End | |
| | Abstract | | 25 | 25 | |
| | Claims | | 19 | 24 | |
| | Specification | | 1 | 18 | |
| Warnings: | | | | | |
| Information: | | | | | |
| 8 | Drawings-only black and white line drawings | 023027-0504053_Drawings_final.pdf | 131340 678d1886d41b59a41e2196f9dc50d7cf94314245 | no | 3 |
| Warnings: | | | | | |
| Information: | | | | | |
| 9 | Transmittal of New Application | 023027-0504053_Con_Appln_Transmittal.pdf | 216948 58f68358ccdef7b029e0606041d49bd2694d566f | no | 1 |
| Warnings: | | | | | |
| Information: | | | | | |
| 10 | Fee Worksheet (SB06) | fee-info.pdf | 40186 ad29be31fa02ab23e569057ddb5e34942299276a | no | 2 |
| Warnings: | | | | | |
| Information: | | | | | |
| Total Files Size (in bytes): | | | 3279071 | | |

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

| | | | |
|---|--|---------|-------|
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |
| This statement is directed to: | | | |
| <input type="checkbox"/> The attached application, | | | |
| OR | | | |
| <input checked="" type="checkbox"/> United States application or PCT international application number <u>14/860,289</u> filed on <u>September 21, 2015</u> . | | | |
| LEGAL NAME of inventor to whom this substitute statement applies: | | | |
| (E.g., Given Name (first and middle (if any)) and Family Name or Surname) | | | |
| Michael R. MANZANO | | | |
| Residence (except for a deceased or legally incapacitated inventor): | | | |
| City | Henderson | State | NV |
| | | Country | USA |
| Mailing Address (except for a deceased or legally incapacitated inventor): | | | |
| 1552 Livingston Drive | | | |
| City | Henderson | State | NV |
| | | Zip | 89012 |
| | | Country | USA |
| I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. | | | |
| The above-identified application was made or authorized to be made by me. | | | |
| I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | | |
| Relationship to the inventor to whom this substitute statement applies: | | | |
| <input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only), | | | |
| <input checked="" type="checkbox"/> Assignee, | | | |
| <input type="checkbox"/> Person to whom the inventor is under an obligation to assign, | | | |
| <input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or | | | |
| <input type="checkbox"/> Joint Inventor. | | | |

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Box & Dropbox Exhibit 1012

Page 383

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☐ Inventor is under legal incapacity,
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.
- OR
- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Janine Terrano

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Topia Technology, Inc.

Applicant Name:

Title of Person Executing This Substitute Statement: Chief Executive Officer of Topia Technology, Inc.

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City

Gig Harbor

State

WA

Country

USA

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

1119 Pacific Avenue, Suite 200

City

Tacoma

State

WA

Zip

98402

Country

USA

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

Michael R. MANZANO

Group Art Unit: Unassigned

Application No.: **New** (Continuation of U.S.
Application No. 16/017,348)

Examiner: Unassigned

Filed: March 22, 2019

Confirmation No.: Unassigned

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicant respectfully requests the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicant with the next Office communication to indicate that the references have been considered, per MPEP § 609.

This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of the first Office Action on the merits in the present application. No certification or fee is required.

The references were cited by or submitted to the Office in parent application no. 16/017,348, filed June 25, 2018, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these references are not attached. 37 C.F.R. § 1.98(d).

Respectfully Submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

/Ngai B. Zhang/

Ngai B. Zhang
Registration Number 65,473
Customer Number: 00909

Date: March 22, 2019
Telephone: (703) 770-7900
Facsimile: (703) 770-7901
P.O. Box 10500
McLean, VA 22102

FORM PTO-1449 (modified)
 To: U.S. Department of Commerce
 (PW FORM PAT-1449)
 Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0504053

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

1

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|----|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | AR | 6,463,463 | 10/2002 | GODFREY et al. | | | |
| | BR | 6,504,994 | 01/2003 | KAWAMURA et al. | | | |
| | CR | 6,505,200 | 01/2003 | IMS et al. | | | |
| | DR | 6,611,849 | 08/2003 | RAFF et al. | | | |
| | ER | 6,671,700 | 12/2003 | CREEMER et al. | | | |
| | FR | 6,708,221 | 03/2004 | MENDEZ et al. | | | |
| | GR | 6,757,696 | 06/2004 | MULTER et al. | | | |
| | HR | 6,760,759 | 07/2004 | CHAN | | | |
| | IR | 6,810,405 | 10/2004 | LARUE et al. | | | |
| | JR | 6,829,622 | 12/2004 | BEYDA | | | |
| | KR | 6,874,037 | 03/2005 | ABRAM et al. | | | |
| | LR | 6,931,454 | 08/2005 | DESHPANDE et al. | | | |
| | MR | 6,990,522 | 01/2006 | WU | | | |
| | NR | 7,024,428 | 04/2006 | HUANG et al. | | | |
| | OR | 7,054,594 | 05/2006 | BLOCH et al. | | | |

FOREIGN PATENT DOCUMENTS

| ORIGINAL PATENT DOCUMENTS | | | | | | Abstract | | Readily Available | |
|---------------------------|----|-----------------|--------------|---------|---------------|----------|----|-------------------|----|
| | | Document Number | Date MM/YYYY | Country | Inventor Name | Enclosed | No | Enclose | No |
| | PR | | | | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | | | | | |
|--|----|--|--|--|--|--|--|--|--|
| | QR | | | | | | | | |
| | RR | | | | | | | | |
| | SR | | | | | | | | |
| | TR | | | | | | | | |

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

| | | | | | | | |
|--|-----|-----------------|--------------|--|------------------|-------------------------------|------------------------------|
| FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office | | | | Atty. Dkt. No. | M# | | |
| | | | | 023027 | 0504053 | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Inventor(s): Michael R. MANZANO | | | |
| | | | | Appln. No.: New | | | |
| | | | | Filing Date: March 22, 2019 | | | |
| | | | | Examiner: Unassigned | | Group Art Unit: Unassigned | |
| Date: March 22, 2019 | | | | Page 2 of 10 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Examiner's Initials* | | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
| | UR | 7,065,658 | 06/2006 | BARABAN et al. | | | |
| | VR | 7,089,307 | 08/2006 | ZINTEL et al. | | | |
| | WR | 7,155,488 | 12/2006 | LUNSFORD et al. | | | |
| | XR | 7,243,163 | 07/2007 | FRIEND et al. | | | |
| | YR | 7,269,433 | 09/2007 | VARGAS et al. | | | |
| | ZR | 7,290,244 | 10/2007 | PECK et al. | | | |
| | AA | 7,340,534 | 03/2008 | CAMERON et al. | | | |
| | BB | 7,398,327 | 07/2008 | LEE | | | |
| | CC | 7,415,615 | 08/2008 | SKYGEBJER | | | |
| | DD | 7,457,631 | 11/2008 | YACH et al. | | | |
| | EE | 7,467,353 | 12/2008 | KURLANDER et al. | | | |
| | FF | 7,483,925 | 01/2009 | KOSKIMIES et al. | | | |
| | GG | 7,526,575 | 04/2009 | RABBERS et al. | | | |
| | HH | 7,574,711 | 08/2009 | ZONDERVAN et al. | | | |
| | IIR | 7,584,186 | 09/2009 | CHEN et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | |
| | | | | | | Translation Readily Available | |
| | | | | | | Enclosed | No |
| | JJR | | | | | | |
| OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.) | | | | | | | |
| | KK | | | | | | |
| | LL | | | | | | |
| | MM | | | | | | |
| | NN | | | | | | |
| Examiner | | | | | Date Considered: | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | | | | | |

FORM PTO-1449 (modified)
 To: U.S. Department of Commerce
 (PW FORM PAT-1449)
 Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

3

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| OO | 7,587,446 | 09/2009 | ONYON et al. | | | |
| PP | 7,613,773 | 11/2009 | WATT | | | |
| QQ | 7,639,116 | 12/2009 | SAUNDERS | | | |
| RR | 7,657,271 | 02/2010 | KIM | | | |
| SS | 7,680,885 | 03/2010 | SCHAUSER et al. | | | |
| TT | 7,752,166 | 07/2010 | QUINLAN et al. | | | |
| UU | 7,761,414 | 07/2010 | FREEDMAN | | | |
| VV | 7,895,334 | 02/2011 | TU et al. | | | |
| WW | 7,987,420 | 07/2011 | KLOBA et al. | | | |
| XX | 8,009,966 | 08/2011 | BLOOM et al. | | | |
| YY | 8,112,549 | 02/2012 | SRINIVASAN et al. | | | |
| ZZ | 8,244,288 | 08/2012 | CHIPCHASE | | | |
| AA | 8,321,534 | 11/2012 | ROSKIND et al. | | | |
| BB | 8,370,423 | 02/2013 | OZZIE et al. | | | |
| CC | 8,386,558 | 02/2013 | SCHLEIFER et al. | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| DD | | | | Enclosed | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|-----|--|--|--|--|--|
| EEE | | | | | |
| FFF | | | | | |
| GGG | | | | | |
| HHH | | | | | |

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

4

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | IIIR 2003/0038842 | 02/2003 | PECK et al. | | | |
| | JJJ 2003/0125057 | 07/2003 | PESOLA | | | |
| | KKK 2003/0135565 | 07/2003 | ESTRADA | | | |
| | LLL 2004/0049345 | 03/2004 | MCDONOUGH et al. | | | |
| | MM 2005/0097225 | 05/2005 | GLATT et al. | | | |
| | NN 2005/0220080 | 10/2005 | RONKAINEN et al. | | | |
| | OO 2006/0058907 | 03/2006 | SUDERMAN | | | |
| | PPF 2006/0189348 | 08/2006 | MONTULLI et al. | | | |
| | QQ 2007/0014314 | 01/2007 | O'NEIL | | | |
| | RRF 2007/0191057 | 08/2007 | KAMADA | | | |
| | SSS 2007/0238440 | 10/2007 | SENGUPTA et al. | | | |
| | TTT 2008/0005280 | 01/2008 | ADAMS | | | |
| | UUU 2008/0086494 | 04/2008 | HELLER et al. | | | |
| | VVV 2008/0168526 | 07/2008 | ROBBIN et al. | | | |
| | WW 2008/0288578 | 11/2008 | SILFVERBERG | | | |
| | XX 2009/0063711 | 03/2009 | FINKELSTEIN | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| | | | | Enclosed | No |
| YYY | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | |
|-----|--|--|--|
| ZZZ | | | |
| AAA | | | |
| BBB | | | |
| CCC | | | |

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

| | | |
|-------------------|---------|--|
| Atty. Dkt. No. | M# | |
| 023027 | 0504053 | |

**INFORMATION DISCLOSURE STATEMENT
 BY APPLICANT**

| | |
|---------------------------------|----------------------------|
| Inventor(s): Michael R. MANZANO | |
| Appln. No.: New | |
| Filing Date: March 22, 2019 | |
| Examiner: Unassigned | Group Art Unit: Unassigned |

Date: March 22, 2019 Page 5 of 10

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| DDI | | | | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| EEE | | | | Enclosed | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | |
|-----|--|--|--|--|--|
| FFF | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040804020435/http://www.foldershare.com:80/ >; August 4, 2004. | | | | |
| GGG | FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030808183932/http://www.foldershare.com:80/ >; August 8, 2003. | | | | |
| HHH | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040814015727/http://www.foldershare.com:80/ >; August 14, 2004. | | | | |
| III | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040820052105/http://www.foldershare.com:80/ >; August 20, 2004. | | | | |
| JJJ | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041211020957/http://foldershare.com:80/ >; December 11, 2004. | | | | |
| KKK | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041217041726/http://foldershare.com:80/ >; December 17, 2004. | | | | |
| LLL | FolderShare; Your Smart File Transfer Solution; < https://web.archive.org/web/20031220151508/http://www.foldershare.com:80/ >; December 20, 2003. | | | | |
| MMM | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041230211050/http://www.foldershare.com:80/ >; December 30, 2004. | | | | |
| NNN | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040701113739/http://foldershare.com:80/ >; July 1, 2004. | | | | |
| OOO | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040711062548/http://www.foldershare.com:80/ >; July 11, 2004. | | | | |

| | |
|----------|------------------|
| Examiner | Date Considered: |
|----------|------------------|

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

6

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | PPF | | | | | |
| | QQQ | | | | | |
| | RRR | | | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| | | | | Enclosed | No |
| SSS | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | |
|-----|---|
| TTT | FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030722054342/http://foldershare.com:80/ >; July 22, 2003. |
| UUU | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040730030655/http://www.foldershare.com:80/ >; July 30, 2004. |
| VVV | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040603205113/http://www.foldershare.com:80/ >; June 3, 2004. |
| WWW | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040613161906/http://www.foldershare.com:80/ >; June 13, 2004. |
| XXX | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040629075057/http://www.foldershare.com:80/ >; June 29, 2004. |
| YYY | FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; < https://web.archive.org/web/20040316235151/http://foldershare.com:80/ >; March 16, 2004. |
| ZZZ | FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; < https://web.archive.org/web/20040325034239/http://www.foldershare.com:80/ >; March 25, 2004. |
| AAA | FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040512211417/http://www.foldershare.com:80/ >; May 12, 2004. |
| BBB | FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030531180252/http://www.foldershare.com:80/ >; May 31, 2003. |
| CCC | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041104031510/http://www.foldershare.com:80/ >; November 4, 2004. |

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

| | | | | | | | |
|--|-------|---|--------------|--|------------------|-------------------------------|------------------------------|
| FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office | | | | Atty. Dkt. No. | M# | | |
| | | | | 023027 | 0504053 | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | Inventor(s): Michael R. MANZANO | | | |
| | | | | Appln. No.: New | | | |
| | | | | Filing Date: March 22, 2019 | | | |
| | | | | Examiner: Unassigned | | Group Art Unit: Unassigned | |
| Date: March 22, 2019 | | | | Page 7 of 10 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Examiner's Initials* | | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
| | DDI | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | |
| | | | | | | Translation Readily Available | |
| | | | | | | Enclosed | No |
| | EEE | | | | | | |
| OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.) | | | | | | | |
| | FFF | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041117092357/http://www.foldershare.com:80/>; November 17, 2004. | | | | | |
| | GGG | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041123085254/http://www.foldershare.com:80/>; November 23, 2004. | | | | | |
| | HHH | FolderShare; Your Files Anywhere; <https://web.archive.org/web/20031128143634/http://foldershare.com:80/>; November 28, 2003. | | | | | |
| | IIIII | FolderShare; Your Files Anywhere; <https://web.archive.org/web/20031001071631/http://foldershare.com:80/>; October 1, 2003. | | | | | |
| | JJJ | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041012083127/http://www.foldershare.com:80/>; October 12, 2004. | | | | | |
| | KKK | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041029085820/http://www.foldershare.com:80/>; October 29, 2004. | | | | | |
| | LLL | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20040901034646/http://www.foldershare.com:80/>; September 1, 2004. | | | | | |
| | MMM | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20040909075254/http://www.foldershare.com:80/>; September 9, 2004. | | | | | |
| | NNN | FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030920051943/http://www.foldershare.com:80/>; September 20, 2003. | | | | | |
| | OOO | FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20040924032146/http://www.foldershare.com:80/>; September 24, 2004. | | | | | |
| Examiner | | | | | Date Considered: | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | | | | | |

| | | | | | | | |
|--|--|-----------------------|--------------|--------------------------------------|--|-------------------------------|------------------------------|
| FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office | | | | | Atty. Dkt. No. | M# | Client Ref. |
| | | | | | 023027 | 0504053 | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | | Inventor(s): Michael R. MANZANO | | |
| | | | | | Appln. No.: New | | |
| | | | | | Filing Date: March 22, 2019 | | |
| | | | | | Examiner: Unassigned Group Art Unit: Unassigned | | |
| Date: March 22, 2019 Page 8 of 10 | | | | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Examiner's Initials* | | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
| | | PPF 2006/0074985 | 04/2006 | WOLFISH | | | |
| | | QQ 2006/0143129 | 06/2006 | HOLM | | | |
| | | RRF 2004/0133629 | 07/2004 | REYNOLDS | | | |
| | | SSS 2002/0035697 | 03/2002 | MCCURDY | | | |
| | | TTT 2003/0028514 | 02/2003 | LORD | | | |
| | | UUU 2003/0078946 | 04/2003 | COSTELLO | | | |
| | | VVV 2007/0180084 | 08/2007 | MOHANTY | | | |
| | | WWW 9,143,561 | 09/2015 | MANZANO | | | |
| | | XXX 2007/0016629 | 01/2007 | REINSCH | | | |
| | | YYY 5,806,078 | 09/1998 | HUG | | | |
| | | ZZZ 2007/0027936 | 02/2007 | STAKUTIS | | | |
| | | AAA 2008/0005114 | 01/2008 | LI | | | |
| | | BBB 5,909,581 | 06/1999 | PARK | | | |
| | | CCC 2004/0158817 | 08/2004 | OKACHI | | | |
| | | DDD 2009/0013009 | 01/2009 | NAKAYAMA | | | |
| | | EEE 2006/0168118 | 07/2006 | GODLIN | | | |
| | | FFF 2006/0129627 | 06/2006 | PHILLIPS | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | |
| | | | | | | Translation Readily Available | |
| | | | | | | Enclosed | No |
| | | | | | | Enclose | No |
| | | GGG WO 98/56149 A1 | 12/1998 | WO | GENELL | | |
| | | HHH WO 2007/047302 A2 | 04/2007 | WO | CHEN et al. | | |
| | | IIIII EP 1 130 511 A2 | 09/2001 | EP | MULTER | | |
| OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.) | | | | | | | |
| | | JJJ | | | | | |
| | | KKK | | | | | |
| | | LLL | | | | | |
| | | MM | | | | | |
| Examiner | | | | | Date Considered: | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | | | | | |

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

Client Ref.

023027

0504053

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: March 22, 2019

Date: March 22, 2019

Page

9

of

10

Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| NNN | 7,325,038 | 01/2008 | Wang | | | |
| OOO | 7,260,646 | 08/2007 | Stefanik et al. | | | |
| PPF | 2005/0091316 | 04/2005 | Ponce et al. | | | |
| QQQ | 2007/0180084 | 08/2007 | Mohanty | | | |
| RRR | 2002/0026478 | 02/2002 | Rodgers et al. | | | |
| SSS | 2007/0027936 | 02/2007 | Stakutis et al. | | | |
| TTT | 2008/0005114 | 01/2008 | Li | | | |
| UUU | 2004/0172424 | 09/2004 | Edelstein et al. | | | |
| VVV | 2013/0226871 | 08/2013 | Sarnowski | | | |
| WWW | 2004/0107225 | 06/2004 | Rudoff | | | |
| XXX | 2006/0010150 | 01/2006 | Shaath et al. | | | |
| YYY | 5,600,834 | 02/1997 | Howard | | | |
| ZZZ | 5,806,078 | 09/1998 | Hug et al. | | | |
| AAA | 6,449,624 | 09/2002 | Hammack et al. | | | |
| BBB | 2003/0028542 | 02/2003 | Muttik et al. | | | |
| CCC | 6,026,414 | 02/2000 | Anglin | | | |
| DDD | 6,154,817 | 11/2000 | Mohan et al. | | | |
| EEE | 6,260,069 | 07/2001 | Anglin | | | |
| FFF | 2002/0087588 | 07/2002 | McBride et al. | | | |
| GGG | 6,606,646 | 08/2003 | Feigenbaum | | | |
| HHH | 2004/0093361 | 05/2004 | Therrien et al. | | | |
| IIIII | 7,136,934 | 11/2006 | Carter et al. | | | |
| JJJ | 2007/0100913 | 05/2007 | Sumner et al. | | | |
| KKK | 7,224,973 | 05/2007 | Tsutazawa et al. | | | |
| LLL | 7,788,303 | 08/2010 | Mikesell et al. | | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | Translation Readily Available |
|--------------------|-----------------|---------|---------------|---------------------|-------------------------------------|
| | | | | Enclosed | No |
| | | | | Enclose | No |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

| | | |
|-------------------|---------|-------------|
| Atty. Dkt. No. | M# | Client Ref. |
| 023027 | 0504053 | |

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

| |
|--|
| Inventor(s): Michael R. MANZANO |
| Appln. No.: New |
| Filing Date: March 22, 2019 |
| Examiner: Unassigned Group Art Unit: Unassigned |

Date: March 22, 2019 Page

| |
|----|
| 10 |
|----|

 of

| |
|----|
| 10 |
|----|

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | MM8,565,729 | 10/2013 | MOSELER et al. | | | |
| | NN7,415,588 | 08/2008 | HONG et al. | | | |
| | OO2009/0282050 | 11/2009 | THOMAS et al. | | | |
| | PP | | | | | |
| | QQ | | | | | |
| | RR | | | | | |
| | SS | | | | | |

FOREIGN PATENT DOCUMENTS

| | Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | | Translation Readily Available | |
|--|--------------------|-----------------|---------|---------------|---------------------|----|-------------------------------------|----|
| | | | | | Enclosed | No | Enclose | No |
| | TT | | | | | | | |
| | UU | | | | | | | |
| | VV | | | | | | | |
| | WW | | | | | | | |
| | XX | | | | | | | |
| | YY | | | | | | | |
| | ZZ | | | | | | | |
| | AA | | | | | | | |
| | BB | | | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | |
|----|---|--|--|--|
| CC | MARSHALL, M., "The Y Combinator List," Venture Beat, August 2007, Retrieved from the Internet: URL: <https://venturebeat.com/2007/08/16/the-y-combinator-list/>, 4 pages. | | | |
| DD | JARVIS, A., "Dropbox pitch deck to raise seed capital investment, " Medium, March 2018, Retrieved from the Internet: URL: <https://medium.com/@adjblog/dropbox-pitch-deck-to-raise-seed-capital-investment-6a6cd6517e56>, 12 pages. | | | |
| EE | | | | |
| FF | | | | |

Examiner _____ Date Considered: _____

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ABSTRACT OF THE DISCLOSURE

In certain embodiments, automatic modification-triggered transfer of a file among two or more computer systems associated with a user. In some embodiments, a copy of a first file may be received, via a first application at a first computer system, from a second application at a second computer system associated with a user. The first file copy may be automatically received from the second application responsive to the user modifying a content of the first file, where the first file copy is a version of the first file that is generated from the user modifying the content of the first file. Responsive to receiving the first file copy from the second computer system, the first file copy may be automatically transferred via the first application to a third computer system associated with the user to replace an older version of the first file stored on the third computer system.

WHAT IS CLAIMED IS:

1. A system comprising:

a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:

receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determine that the server system is not in communication with a second client device associated with the user; and

store the copy of the first file on the server system;

automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.

2. The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

store the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server system responsive to determining that the server system is not in communication with the second client device; and

automatically transfer the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.

3. The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transfer, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device.

4. The system of claim 3, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

5. The system of claim 3, wherein availability of the version of the first file is presented at the second client device based on the first metadata.

6. The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being a version of the second file that is generated from the user modifying the content of the second file;

determine that the server system is in communication with the first client device associated with the user; and

automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the first file from the second client device.

7. The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

periodically perform a pull request, wherein the copy of the first file is automatically received from the first client device responsive to (i) the pull request and (ii) the user modifying the content of the first file stored on the first client device.

8. The system of claim 1, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

9. The system of claim 1, wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects.

10. The system of claim 9, wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system.

11. The system of claim 10, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

12. A method being implemented by a server system comprising one or more processors executing computer program instructions that, when executed, perform the method, the method comprising:

receiving, by the server system, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;

determining, by the server system, whether the server system is in communication with a second client device associated with the user; and

automatically transferring, by the server system, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client device, responsive to (i) determining that the server system is in communication with the second client device and (ii) receiving the copy of the first file from the first client device.

13. The method of claim 12, further comprising:

initially determining, by the server system, that the server system is not in communication with the second client device associated with the user; and

automatically transferring, by the server system, the copy of the first file to the second client device to replace the older version of the first file stored on the second client device with the copy of the first file, responsive to (i) resuming communication with the second client device, (ii) determining that the server system is in communication with the second client device, (iii) and receiving the copy of the first file from the first client device.

14. The method of claim 12, further comprising:

storing, by the server system, the copy of the first file to a memory device associated with the server system, wherein the copy of the first file is stored on the memory device associated with the server system responsive to initially determining that the server system is not in communication with the second client device.

15. The method of claim 12, further comprising:

receiving, by the server system, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, by the server system, based on the first priority being greater than the second priority, the first metadata to the second client device such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device.

16. The method of claim 15, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

17. The method of claim 12, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, and wherein the first application is configured to create a first mobile object, and the first mobile object is configured to create a proxy object at the server system and to provide the copy of the first file to the proxy object.

18. One or more non-transitory machine-readable media storing instructions that, when executed by one or more processors of a first computer system, cause operations comprising:

receiving, by the first computer system, over a network, a copy of a first file from a second computer system associated with a user, wherein the copy of the first file is automatically received from the second computer system responsive to the user modifying a content of the first file stored on the second computer system, the copy of

the first file being a version of the first file that is generated from the user modifying the content of the first file;

determining, by the first computer system, that the first computer system is not in communication with a third computer system associated with the user;

storing, by the first computer system, the copy of the first file on the first computer system; and

automatically transferring, by the first computer system, over a network, the copy of the first file to the third computer system associated with the user to replace an older version of the first file stored on the third computer system, responsive to (i) resuming communication with the third computer system and (ii) receiving the copy of the first file from the second computer system.

19. The one or more non-transitory machine-readable media of claim 19, further comprising:

receiving, by the first computer system, from the second computer system, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, by the first computer system, the first metadata to the second client device based on the first priority being greater than the second priority such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device.

20. The one or more non-transitory machine-readable media of claim 19, wherein at least one of the first computer system or the second computer system comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the first computer system or the second computer system assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application No. 16/017,348, filed June 25, 2018, which is a continuation of U.S. Patent Application No. 14/860,289, filed September 21, 2015, now U.S. Patent No. 10,067,942, which is a continuation of U.S. Patent Application No. 12/267,852, filed November 10, 2008, now U.S. Patent No. 9,143,561, which claims priority to U. S. Provisional Application No. 60/986,896 entitled "ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK" and filed November 9, 2007, the contents of which are hereby incorporated by reference in their entirety.

FIELD OF THE INVENTION

[0002] This invention relates generally to computer-implemented processes and, more specifically, to sharing of electronic files among computer systems.

BACKGROUND OF THE INVENTION

[0003] Users of modern computing systems are increasingly finding themselves in constantly-connected, high-speed networked environments. The Web continues to be a killer application, second only to email, on the Internet. Further, customers are increasingly using more than one computing device; a customer may have a desktop computer at home, one at work, and a constantly connected "smart phone". Due to the confluence of these two trends, file management across these devices has become a problem.

[0004] Although modern devices are easily connected, they do not provide the customer a seamless environment; the customer must manually handle many aspects of

that connection. With regards to file management, customers must manually move files between their devices using some protocol like email, ftp, or by posting them on the Web. These practices lead to problems that include:

[0005] • The proliferation of redundant file copies. This proliferation creates a confusing environment where the customer is unclear where the "official" or newest version of a file exists.

[0006] • The creation of an error-prone environment. Some documents, such as those associated with word processing and desktop publishing, externally reference other files. Copying such a document can break these references causing errors that the customer has to handle manually. An example of such a document is a desktop publishing document that contains a reference to an image. If that image file is not transferred along with the desktop publishing file, the image will appear as a broken link.

[0007] • Unnecessary complexity. Because devices tend to have their own filing system, customers must manage a different filing model on each of his devices. For example, instead of having a single "Movies" folder, he may have to deal with many "Movies" folders, which may be in different locations on each of his devices. Each device may also have its own security model, further complicating the matter.

[0008] That a customer has to manually move files around to ensure their accessibility on his devices is unnecessary, and is an indicator of a lack of customer-focused design in modern file systems. File systems in use today are direct offspring of systems used when graphical customer interfaces were nonexistent. Modern file system customer interfaces, such as Windows® Explorer and Mac OS X's Finder are just now starting to provide experiences that are more in line to a customer's workflow. Whereas, before, these interfaces were concerned with representing files with abstracted icons, the file's actual contents are becoming paramount in how files are organized and presented.

[0009] Problems still exist with how these newer customer interfaces are implemented. They are not completely integrated with applications, suffer from

performance problems, and do not generally work well outside of a device's local file system.

[0010] There are several solutions to this problem that are in one way or another inadequate to the task:

[0011] Remote Desktop software allows a customer to remotely "see" his desktop. Remote desktop software screen-scrapes a remote machine's screen (a "server") and displays it on a screen local to the customer (a "client"). Remote desktop gives a customer access to not only his files, but also to his applications. However, this approach requires that the host machine be turned on and connected to the internet at all times. Consequently, this approach would not be appropriate for mobile hosts such as laptops. Remote desktop does not use the resources of a local machine. For full accessibility, the customer would have to keep all files and application on the host machine as any files stored on a client are not guaranteed to be accessible.

[0012] Distributed File Systems, like remote desktop software, place data on an always-connected host machine. Unlike remote desktop software, the host machine is not one on which the customer performs computing tasks. The host machine is used as a storage mechanism, and any computation performed on that machine serves to supports its use as such. Distributed file systems generally provide the right functionality for customers to share files between their devices. However, distributed file systems are usually deployed as a shared resource; that is, other customers have access to it. Because of this sharing, a customer's files may be buried deep in a filing structure, and it may not always be immediately evident to customers what kind of access they have to a particular file. Further, to use a distributed file system, the customer must always be connected to it. Files stored on a distributed file system are generally inaccessible if the customer's machine is not connected to it, unless the customer has copied or moved the files to his machine's local hard drive. However, doing so immediately creates the problem of having two filing systems for the same file, creating a mental burden on the customer.

[0013] Additionally, accessing a file located on a distributed file system tends to be slower than accessing files on the local hard drive. Modern applications are usually written to assume that the files they access are located locally, and thus are not optimized to access remote files. When these applications are used with remote files, they can lose performance by an order of magnitude. This problem can be fixed by automatically caching often-used files on the local file system, and only synchronizing them when they have been changed. However, this separate synchronization step introduces another problem: because the synchronization process can be lengthy, the customer is never entirely sure if the file he is remotely accessing is the latest version of the file, versus an earlier one that has been marked to be updated. Further, the directory may not reflect the existence of the file at all until synchronization finishes.

[0014] FTP is similar to a distributed file system with regards to files being hosted on a remote server. However FTP generally does manifest as a "disk drive" on the customer's desktop; the customer must use special FTP client software to access an FTP server. It shares the same problem as distributed file systems, with the additional problem of weak integration with applications. Applications can generally write and read files directly to and from a distributed file system. This is not the case with FTP, as the customer has to manually use the client software to perform these operations as a separate task.

[0015] Email was originally invented for messaging. From the beginning, the model it employs to make files accessible remotely is necessarily inefficient. Email's model for making files accessible is in the form of an email "attachment". Attachments are so named because they piggy-back on a message sent from one customer to another. A customer can make a file remotely available using email by attaching the file to an email and sending it to himself. He can then retrieve the file from a remote location by accessing the message on the email server. Email used in this way is even worse than FTP as the process is even more manual: a customer must find the message containing

the file before he can even access it. Further, the location in which the attachment lives is read only. If the customer, for example, were to open the file, change it, then save it back out, the results would be ambiguous to the user because the email application, not the user, specified its location. Usually, the saved file would end up buried in an email file cache in an undisclosed area of the file system.

[0016] Flash Drives and External Disk Drives, although seemingly the most "primitive" way to ensure file availability, avoid all the problems related to network latency. However, these devices must be physically connected to the computer on which the files will be accessed. These restrictions preclude the customer from employing several effective work-flows including: using more than one computer to complete a single task (the files can only be accessed on one computer) and setting up an automated backup (the computer running the backup can't guarantee that the storage device will be connected come backup time). Further, to ensure full availability of the files, the customer must carry the device with them at all times, and must follow the associated protocols for mounting and dismounting the device.

[0017] Other problems with the prior art not described above can also be overcome using the teachings of embodiments of the present invention, as would be readily apparent to one of ordinary skill in the art after reading this disclosure.

SUMMARY OF THE INVENTION

[0018] In certain embodiments, automatic modification-triggered transfer of a file among two or more computer systems associated with a user. In some embodiments, a copy of a first file may be received, via a first application at a first computer system, from a second application at a second computer system associated with a user. The first file copy may be automatically received from the second application responsive to the user modifying a content of the first file, where the first file copy is a version of the first

file that is generated from the user modifying the content of the first file. Responsive to receiving the first file copy from the second computer system, the first file copy may be automatically transferred via the first application to a third computer system associated with the user to replace an older version of the first file stored on the third computer system.

BRIEF DESCRIPTION OF THE DRAWING

[0019] Preferred and alternative embodiments of the present invention are described in detail below with reference to the following drawings.

[0020] FIG. 1 is a schematic view of an exemplary operating environment in which an embodiment of the invention can be implemented;

[0021] FIG. 2 is a functional block diagram of an exemplary operating environment in which an embodiment of the invention can be implemented; and

[0022] FIG. 3 is a functional block diagram illustrating file sharing and/or synchronization according to an embodiment of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0023] An embodiment of the invention leverages remote programming concepts by utilizing processes called mobile agents (sometimes referred to as mobile objects or agent objects). Generally speaking, these concepts provide the ability for an object (the mobile agent object) existing on a first ("host") computer system to transplant itself to a second ("remote host") computer system while preserving its current execution state. The operation of a mobile agent object is described briefly below.

[0024] The instructions of the mobile agent object, its preserved execution state, and other objects owned by the mobile agent object are packaged, or "encoded," to generate a string of data that is configured so that the string of data can be transported by

all standard means of communication over a computer network. Once transported to the remote host, the string of data is decoded to generate a computer process, still called the mobile agent object, within the remote host system. The decoded mobile agent object includes those objects encoded as described above and remains in its preserved execution state. The remote host computer system resumes execution of the mobile agent object which is now operating in the remote host environment.

[0025] While now operating in the new environment, the instructions of the mobile agent object are executed by the remote host to perform operations of any complexity, including defining, creating, and manipulating data objects and interacting with other remote host computer objects.

[0026] File transfer and/or synchronization, according to an embodiment, may be accomplished using some or all of the concepts described in commonly owned U. S. Patent App. No. 11/739,083, entitled "Electronic File Sharing," the entirety of which is incorporated by reference as if fully set forth herein.

[0027] FIG. 1 illustrates an example of a suitable computing system environment 100 in which one or more embodiments of the invention may be implemented. The computing system environment 100 is only one example of a suitable computing environment and is not intended to suggest any limitation as to the scope of use or functionality of the invention. Neither should the computing environment 100 be interpreted as having any dependency or requirement relating to any one or combination of components illustrated in the exemplary operating environment 100.

[0028] Embodiments of the invention are operational with numerous other general purpose or special purpose computing system environments or configurations. Examples of well known computing systems, environments, and/or configurations that may be suitable for use with the invention include, but are not limited to, personal computers, server computers, hand-held or laptop devices, multiprocessor systems, microprocessor-based systems, set top boxes, programmable consumer electronics,

network PCs, minicomputers, mainframe computers, distributed computing environments that include any of the above systems or devices, and the like.

[0029] Embodiments of the invention may be described in the general context of computer-executable instructions, such as program modules, being executed by a computer and/or by computer-readable media on which such instructions or modules can be stored. Generally, program modules include routines, programs, objects, components, data structures, etc. that perform particular tasks or implement particular abstract data types. The invention may also be practiced in distributed computing environments where tasks are performed by remote processing devices that are linked through a communications network. In a distributed computing environment, program modules may be located in both local and remote computer storage media including memory storage devices.

[0030] With reference to FIG. 1, an exemplary system for implementing the invention includes a general purpose computing device in the form of a computer 110. Components of computer 110 may include, but are not limited to, a processing unit 120, a system memory 130, and a system bus 121 that couples various system components including the system memory to the processing unit 120. The system bus 121 may be any of several types of bus structures including a memory bus or memory controller, a peripheral bus, and a local bus using any of a variety of bus architectures. By way of example, and not limitation, such architectures include Industry Standard Architecture (ISA) bus, Micro Channel Architecture (MCA) bus, Enhanced ISA (EISA) bus, Video Electronics Standards Association (VESA) local bus, and Peripheral Component Interconnect (PCI) bus also known as Mezzanine bus.

[0031] Computer 110 typically includes a variety of computer readable media. Computer readable media can be any available media that can be accessed by computer 110 and includes both volatile and nonvolatile media, removable and non-removable media. By way of example, and not limitation, computer readable media may comprise

computer storage media and communication media. Computer storage media includes both volatile and nonvolatile, removable and non-removable media implemented in any method or technology for storage of information such as computer readable instructions, data structures, program modules or other data. Computer storage media includes, but is not limited to, RAM, ROM, EEPROM, flash memory or other memory technology, CD-ROM, digital versatile disks (DVD) or other optical disk storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to store the desired information and which can be accessed by computer 110. Communication media typically embodies computer readable instructions, data structures, program modules or other data in a modulated data signal such as a carrier wave or other transport mechanism and includes any information delivery media. The term “modulated data signal” means a signal that has one or more of its characteristics set or changed in such a manner as to encode information in the signal. By way of example, and not limitation, communication media includes wired media such as a wired network or direct-wired connection, and wireless media such as acoustic, RF, infrared and other wireless media. Combinations of any of the above should also be included within the scope of computer readable media.

[0032] The system memory 130 includes computer storage media in the form of volatile and/or nonvolatile memory such as read only memory (ROM) 131 and random access memory (RAM) 132. A basic input/output system 133 (BIOS), containing the basic routines that help to transfer information between elements within computer 110, such as during start-up, is typically stored in ROM 131. RAM 132 typically contains data and/or program modules that are immediately accessible to and/or presently being operated on by processing unit 120. By way of example, and not limitation, FIG. 1 illustrates operating system 134, application programs 135, other program modules 136, and program data 137.

[0033] The computer 110 may also include other removable/non-removable, volatile/nonvolatile computer storage media. By way of example only, FIG. 1 illustrates a hard disk drive 140 that reads from or writes to non-removable, nonvolatile magnetic media, a magnetic disk drive 151 that reads from or writes to a removable, nonvolatile magnetic disk 152, and an optical disk drive 155 that reads from or writes to a removable, nonvolatile optical disk 156 such as a CD ROM or other optical media. Other removable/non-removable, volatile/nonvolatile computer storage media that can be used in the exemplary operating environment include, but are not limited to, magnetic tape cassettes, flash memory cards, digital versatile disks, digital video tape, solid state RAM, solid state ROM, and the like. The hard disk drive 141 is typically connected to the system bus 121 through a non-removable memory interface such as interface 140, and magnetic disk drive 151 and optical disk drive 155 are typically connected to the system bus 121 by a removable memory interface, such as interface 150.

[0034] The drives and their associated computer storage media discussed above and illustrated in FIG. 1, provide storage of computer readable instructions, data structures, program modules and other data for the computer 110. In FIG. 1, for example, hard disk drive 141 is illustrated as storing operating system 144, application programs 145, other program modules 146, and program data 147. Note that these components can either be the same as or different from operating system 134, application programs 135, other program modules 136, and program data 137. Operating system 144, application programs 145, other program modules 146, and program data 147 are given different numbers here to illustrate that, at a minimum, they are different copies. A user may enter commands and information into the computer 20 through input devices such as a keyboard 162 and pointing device 161, commonly referred to as a mouse, trackball or touch pad. Other input devices (not shown) may include a microphone, joystick, game pad, satellite dish, scanner, or the like. These and other input devices are often connected to the processing unit 120 through a user input interface 160 that is coupled to the system

bus, but may be connected by other interface and bus structures, such as a parallel port, game port or a universal serial bus (USB). A monitor 191 or other type of display device is also connected to the system bus 121 via an interface, such as a video interface 190. In addition to the monitor, computers may also include other peripheral output devices such as speakers 197 and printer 196, which may be connected through an output peripheral interface 190.

[0035] The computer 110 may operate in a networked environment using logical connections to one or more remote computers, such as a remote computer 180. The remote computer 180 may be a personal computer, a server, a router, a network PC, a peer device or other common network node, and typically includes many or all of the elements described above relative to the computer 110, although only a memory storage device 181 has been illustrated in FIG. 1. The logical connections depicted in FIG. 1 include a local area network (LAN) 171 and a wide area network (WAN) 173, but may also include other networks. Such networking environments are commonplace in offices, enterprise-wide computer networks, intranets and the Internet.

[0036] When used in a LAN networking environment, the computer 110 is connected to the LAN 171 through a network interface or adapter 170. When used in a WAN networking environment, the computer 110 typically includes a modem 172 or other means for establishing communications over the WAN 173, such as the Internet. The modem 172, which may be internal or external, may be connected to the system bus 121 via the user input interface 160, or other appropriate mechanism. In a networked environment, program modules depicted relative to the computer 110, or portions thereof, may be stored in the remote memory storage device. By way of example, and not limitation, FIG. 1 illustrates remote application programs 185 as residing on memory device 181. It will be appreciated that the network connections shown are exemplary and other means of establishing a communications link between the computers may be used.

[0037] Referring now to FIG. 2, an embodiment of the present invention can be described in the context of an exemplary computer network system 200 as illustrated. System 200 includes electronic user devices 210, 280, such as personal computers or workstations, that are linked via a communication medium, such as a network 220 (*e.g.*, the Internet), to an electronic device or system, such as a server 230. The server 230 may further be coupled, or otherwise have access, to a database 240, electronic storage 270 and a computer system 260. Although the embodiment illustrated in FIG. 2 includes one server 230 coupled to two user devices 210, 280 via the network 220, it should be recognized that embodiments of the invention may be implemented using two or more such user devices coupled to one or more such servers.

[0038] In an embodiment, each of the user devices 210, 280 and server 230 may include all or fewer than all of the features associated with the computer 110 illustrated in and discussed with reference to FIG. 1. User devices 210, 280 include or are otherwise coupled to a computer screen or display 250, 290, respectively. User devices 210, 280 can be used for various purposes including both network- and local-computing processes.

[0039] The user devices 210, 280 are linked via the network 220 to server 230 so that computer programs, such as, for example, a browser or other applications, running on one or more of the user devices 210, 280 can cooperate in two-way communication with server 230 and one or more applications running on server 230. Server 230 may be coupled to database 240 and/or electronic storage 270 to retrieve information therefrom and to store information thereto. Additionally, the server 230 may be coupled to the computer system 260 in a manner allowing the server to delegate certain processing functions to the computer system.

[0040] Referring now to FIG. 3, illustrated is functionality of an embodiment of the invention allowing a user (not shown) who owns or otherwise controls devices 210, 280 to automatically maintain file synchronization between at least devices 210, 280, or any other user devices on which principles of the present invention are implemented. In

an embodiment, an administrator (not shown) of the server 230 or other appropriate electronic device transfers a file-transfer and/or synchronization application to the user devices 210, 280 for installation thereon. Once installed on the user devices 210, 280, the file-transfer application provides file-transfer clients 310, 320 executable by the user devices 210, 280, respectively. Each of the file-transfer clients 310, 320 may, but need not, include a respective mobile-agent runtime environment 330, 340. The mobile-agent runtime environment 330, 340 include portions of memory of the user devices 210, 280 dedicated to allowing a mobile object the ability to perform operations that the mobile object is programmed to carry out. Also included in the file-transfer application are user interfaces 350, 360 that are displayable on the displays 250, 290, respectively. In an embodiment, the interfaces 350, 360 allow a user to view, access and/or organize files to be synched among the various user devices.

[0041] Generally, all files that the user desires to be synched or shared may at some point be uploaded by one or more of the user devices 210, 280 and stored in storage 270. Upon receiving the files to be synched, the server 230 can store such files in the storage 270 and/or transfer the files to one or more of the respective hard drives of the user devices 210, 280, thereby enabling each respective user device to access such files. In this manner, the server 230 is operable to treat each hard drive of the respective user devices 210, 280 as a local document cache for files received by the server. Typically, the server 230 will store one or more of the received files to the storage 270 only if the destination user device is offline or otherwise temporarily not in communication with the server 230. Upon resuming communication with the destination user device, the server 230 will transfer the temporarily stored files to the destination device.

[0042] In operation, according to an embodiment, the user may open and modify a file 370, such as a word-processing document or other electronic file. Alternatively, the user may create a first instance of the file 370. The user may have previously have associated, or may now associate, the file 370 with the transfer client 310. Upon a

predetermined and user-configurable triggering event, the transfer client 310 transfers the modified file 370, or a copy of the modified file, to the server 230. Such a triggering event may include, but be not limited to, the user saving the file, the elapsing of a predetermined amount of time during which the file has been opened, or the re-initiation of a communication session between the device 210 and the server 230.

[0043] The file 370 is transferred to the server 230 on which is executing a synchronization application 380, which may include a mobile-agent runtime environment. Through user configuration, the synch application 380 monitors a set of user devices to which the file 370 should be transferred to effect file synchronization. In the illustrated embodiment, this set of user devices includes the user device 280. The synch application 380 polls the device 280 to determine whether the device 280 is in communication with the server 230. If the device 280 is in communication with the server 230, the synch application 380 transfers the file 370 to the device 280, whereupon the transfer client 320 resident on the device 280 replaces the previous version of the file 370, previously cached on the device 280, with the latest version of the file 370 modified on the user device 210. If the device 280 is not currently in communication with the server 230, the synch application 380 may store the file 370 in the storage 270 until such time as communication between the device 280 and server 230 is reestablished. As illustrated in Figure 3, a similar reverse-direction synchronization process may be performed by the synch application 380 and the transfer clients 310, 320 with regard to a file 315 modified on device 280 and synchronized to device 210.

[0044] In an embodiment, the user interfaces 350, 360 may include a list of the customer's documents and related metadata, as well as any one-to-one or one-to-many relationships between the documents and metadata. An embodiment can always provide customers with an accurate "picture" of their document collection, regardless of whether their devices physically contain the documents. As alluded to earlier, a problem with distributed file systems and FTP is the latency between a file being put onto a file system

and it showing up on a remote machine. To prevent this problem, an embodiment directory is decoupled from the movement of files. An embodiment's directory update system updates at a higher priority than the documents to be synchronized. This feature ensures that when a customer browses or searches through his set of documents, they appear even if they have not yet been cached locally on the user device. An indicator signifying a document's availability may be prominently displayed adjacent to the document's representation so that customers are aware of the document's availability.

[0045] An embodiment may include a stand-alone application that allows customers to find and manage documents associated with transfer clients 310, 320 by visualizing relationships between documents and their metadata. It allows customers to tag documents with any number of identifiers. Customers can relate both documents and tags with each other in any number of user-specified one-to-one and one-to-many relationships, and an embodiment provides a user interface to browse and search on these relationships. To mitigate the customers' learning curve, an embodiment can implement relationships common to contemporary file systems, including a folder hierarchy. In addition to this, an embodiment provides direct support for methods that the customer uses to organize documents by manifesting them as user interface idioms. This is unlike conventional document filing systems which require the customer to work within a strict folder metaphor for organization.

[0046] Some alternate methods that an embodiment supports for organizing documents include:

[0047] • Allow customers to organize their documents by application. Many times customers remember the application used to create a document instead of the document's name or its location in a hierarchy.

[0048] • Allow customers to organize their documents by most recent access. Customers are likely to access a document they've accessed in the near past. Usually, such documents are part of a task that the customer is actively working.

[0049] • Allow customers to organize their documents by project or subproject.

[0050] • Allow customers to organize their documents by people. Many times, especially in the context of a collaboration, a document is directly related to one or more people other than the customer.

[0051] • Allow the customer to organize their document by process stage. Documents may represent one or more stages of a process. Customers need a method for organizing documents by process stage, and a mechanism for moving the document through a set of predefined stages.

[0052] • Allow customers to organize their documents by any of the aforementioned methods concurrently. These organization methods are not mutually exclusive.

[0053] An embodiment presents an interface that allows a customer to locate one or more documents associated with the transfer clients 310, 320 and open such document into a separate software application. Since this interface is intended to be used from within the separate application, that application may need to know how to invoke such interface. Advantageously, this invocation behavior can be provided to the application using the application's plug-in API.

[0054] An embodiment presents an interface that allows a customer to synchronize a currently opened document according to processes described elsewhere herein. This interface can be invoked within an application and can be made available to the application in the manner described above in connection with the application's plug-in API.

[0055] Some files associated with the transfer clients 310, 320 are dependent on other files associated with the transfer clients 310, 320. For example, a desktop publishing document may include images that are stored in files separate from the main document. Previous file-synching solutions treat these files as separate. Because of this, for example, a document synchronized from the device 210 to the device 280 may be

opened by the user of the device 280 before the image files have been fully transferred to the device 280. This causes the document to fail to open, or break, since the image files don't exist or are incomplete. An embodiment prevents this by: (1) always ensuring the file catalog (*e.g.*, the stand-alone application that allows customers to find and manage documents associated with transfer clients 310, 320, as discussed above herein) is synchronized before any file data is synchronized, and (2) pausing any file access by any program until the file contents have been fully synchronized. In such an embodiment, if a user attempts, using a software program, to open a file whose related files haven't yet finished transferring to the local (hard drive) cache, if that software attempts to open the related files, the software program is blocked by an embodiment until the requested files are downloaded and ready to access.

[0056] Other file sending and synchronizing software requires the user to upload their data to a storage device owned by the operator of the service. An embodiment treats storage as a participant in the synchronization process; this means that the user can choose the service or device where their files will be stored. The file transfer/synching is abstracted from the storage system allowing any storage to be used. An embodiment treats storage like any other synch target, such as a desktop computer, or a cell phone. As such, any device owned or otherwise controlled by the user and running a synch application, such as synch application 380, as provided in an embodiment of the invention can perform the storage and/or synching functions described elsewhere herein. That is, the user device 280 or user device 210, rather than the server 230, may perform such functions.

[0057] While a preferred embodiment of the invention has been illustrated and described, as noted above, many changes can be made without departing from the spirit and scope of the invention. For example, as an alternative to the approach described with reference to Figure 3, wherein the transfer clients 310, 320 function to “push” modified or created files to the synch application 380, the synch application 380 may instead

function to periodically “pull” or otherwise actively retrieve such files from the transfer clients 310, 320. Instead, the invention should be determined entirely by reference to the claims that follow.

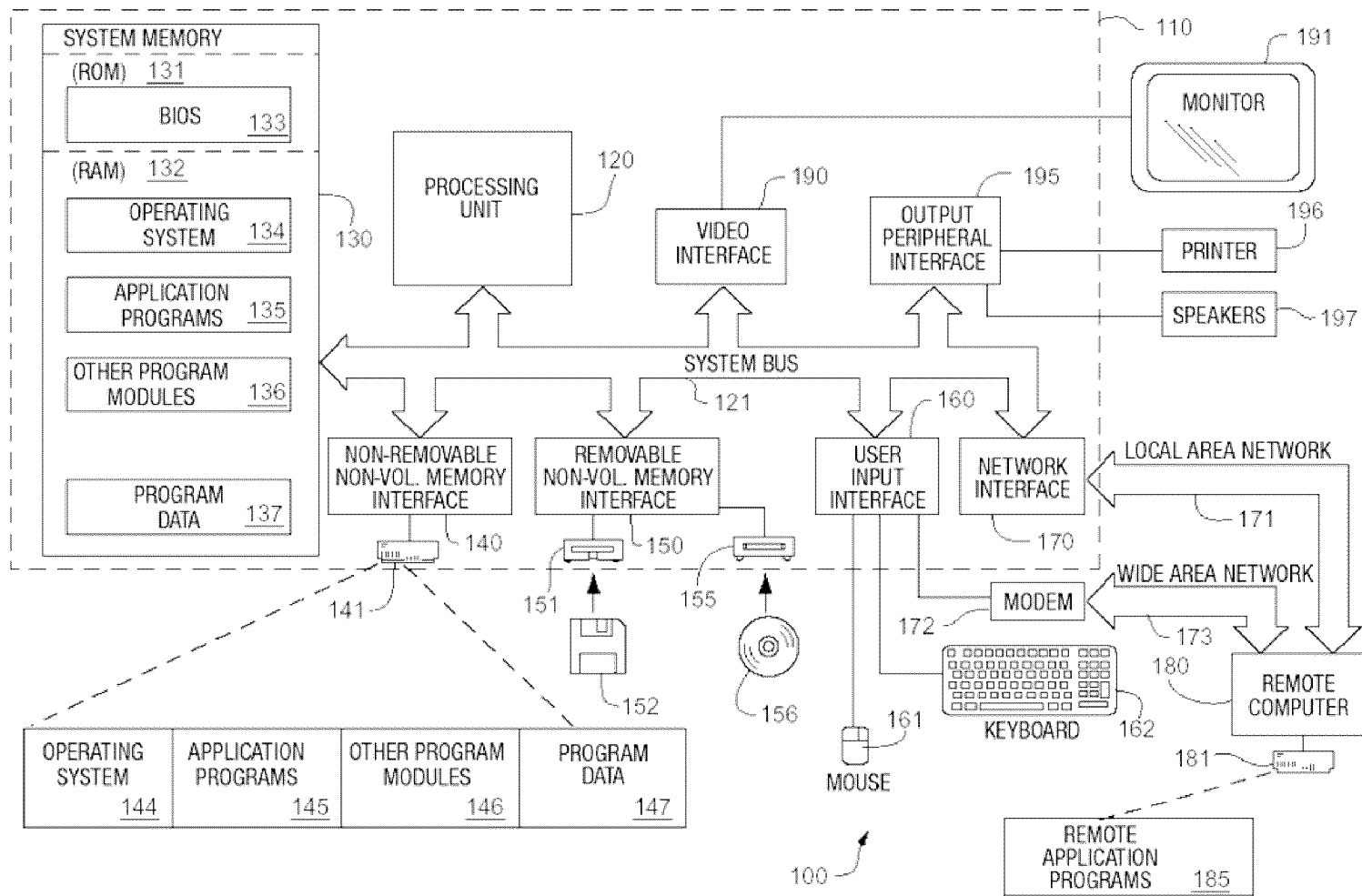


FIG. 1

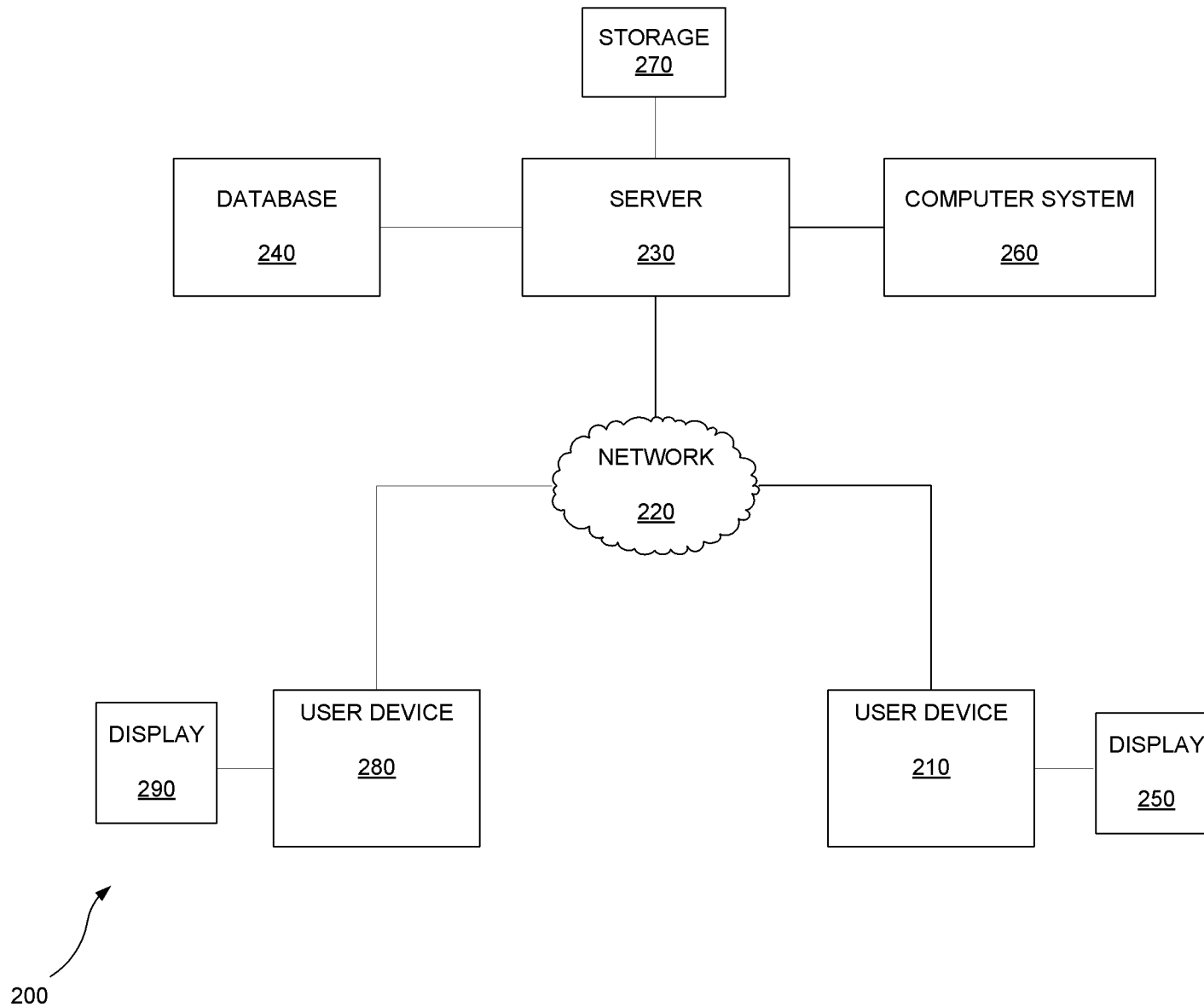


FIG. 2

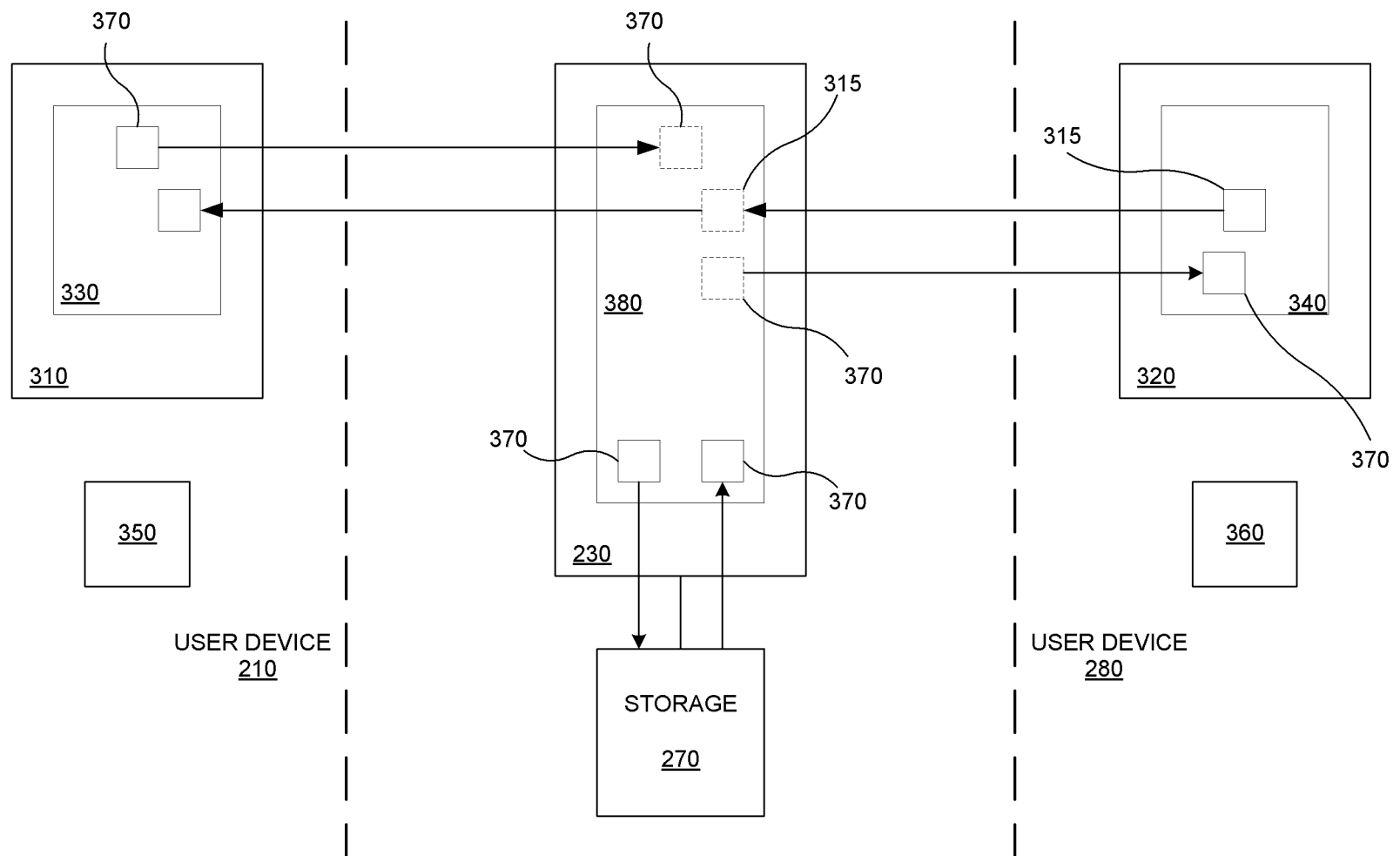


FIG. 3

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

| | | | |
|-----------------------|---|---|-----|
| First Named Inventor: | Michael R. Manzano | Nonprovisional Application Number (if known): | New |
| Title of Invention: | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

| | |
|----------------------------------|--|
| Signature /Ngai B. Zhang/ | Date March 22, 2019 |
| Name (Print/Typed) Ngai B. Zhang | Practitioner Registration Number 65473 |

Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.*

☐ *Total of _____ forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | |
|---|---|------------------------|----------------|
| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | 023027-0504053 |
| | | Application Number | |
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |
| <p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p> | | | |

Secrecy Order 37 CFR 5.2:

| | |
|--------------------------|---|
| <input type="checkbox"/> | Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.) |
|--------------------------|---|

Inventor Information:

| | | | | | | |
|---|---------------------|----------------|-------------|----------------------|------------------------|--|
| Inventor | 1 | | | | Remove | |
| Legal Name | | | | | | |
| Prefix | Given Name | Middle Name | Family Name | Suffix | | |
| | Michael | R. | MANZANO | | | |
| Residence Information (Select One) • US Residency Non US Residency Active US Military Service | | | | | | |
| City | Seattle | State/Province | WA | Country of Residence | US | |
| Mailing Address of Inventor: | | | | | | |
| Address 1 | 5702 35th Avenue NE | | | | | |
| Address 2 | | | | | | |
| City | Seattle | State/Province | WA | | | |
| Postal Code | 98105 | Country | US | | | |
| All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add | | | | | | |

Correspondence Information:

| | |
|---|----------------------------|
| Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a). | |
| <input type="checkbox"/> An Address is being provided for the correspondence Information of this application. | |
| Customer Number | 00909 |
| Email Address | docket_ip@pillsburylaw.com |
| Add Email Remove Email | |

Application Information:

| | | | |
|---|---|---|-------------------------------------|
| Title of the Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |
| Attorney Docket Number | 023027-0504053 | Small Entity Status Claimed | <input checked="" type="checkbox"/> |
| Application Type | Nonprovisional | | |
| Subject Matter | Utility | | |
| Total Number of Drawing Sheets (if any) | 3 | Suggested Figure for Publication (if any) | 1 |

| | | | |
|---|---|------------------------|----------------|
| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | 023027-0504053 |
| | | Application Number | |
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

| | | |
|--|--------------------------|--|
| Application number of the previously filed application | Filing date (YYYY-MM-DD) | Intellectual Property Authority or Country |
| | | |

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

| | | | |
|--------------------|--|--|---|
| Please Select One: | <input checked="" type="radio"/> Customer Number | <input type="radio"/> US Patent Practitioner | <input type="radio"/> Limited Recognition (37 CFR 11.9) |
| Customer Number | 00909 | | |

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

| | | | |
|--------------------------|-----------------|--------------------------|------------------------------------|
| Prior Application Status | Pending | Remove | |
| Application Number | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) |
| | Continuation of | 16/017348 | 2018-06-25 |

| | | | | | |
|---|--|---|--|----------------|--|
| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | | 023027-0504053 | |
| | | Application Number | | | |
| Title of Invention | | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | | |

| | | | | | |
|---|-------------------------------|--------------------------|------------------------------------|---------------|-------------------------|
| Prior Application Status | | Patented | | Remove | |
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 16/017348 | Continuation of | 14/860289 | 2015-09-21 | 10067942 | 2018-09-04 |
| Prior Application Status | | Patented | | Remove | |
| Application Number | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD) | Patent Number | Issue Date (YYYY-MM-DD) |
| 14/860289 | Continuation of | 12/267852 | 2008-11-10 | 9143561 | 2015-09-22 |
| Prior Application Status | | Expired | | Remove | |
| Application Number | Continuity Type | Prior Application Number | Filing or 371(c) Date (YYYY-MM-DD) | | |
| 12/267852 | Claims benefit of provisional | 60/986896 | 2007-11-09 | | |
| Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button. | | | | | Add |

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

| | | | |
|--|----------------------|--------------------------|--|
| Remove | | | |
| Application Number | Country ⁱ | Filing Date (YYYY-MM-DD) | Access Code ⁱ (if applicable) |
| | | | |
| Additional Foreign Priority Data may be generated within this form by selecting the Add button. | | | |
| Add | | | |

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

| | | | |
|---|---|------------------------|----------------|
| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | 023027-0504053 |
| | | Application Number | |
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

| | | | |
|---|---|------------------------|----------------|
| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | 023027-0504053 |
| | | Application Number | |
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

| | | |
|---|--|--|
| Applicant | 1 | Remove |
| <p>If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.</p> <p style="text-align: right;">Clear</p> | | |
| <input checked="" type="radio"/> Assignee | Legal Representative under 35 U.S.C. 117 | Joint Inventor |
| Person to whom the inventor is obligated to assign. | | Person who shows sufficient proprietary interest |
| If applicant is the legal representative, indicate the authority to file the patent application, the inventor is: | | |
| <div style="border: 1px solid black; height: 20px; width: 100%;"></div> | | |
| Name of the Deceased or Legally Incapacitated Inventor: <div style="border: 1px solid black; width: 450px; height: 20px;"></div> | | |
| If the Applicant is an Organization check here. <input checked="" type="checkbox"/> | | |
| Organization Name | TOPIA TECHNOLOGY, INC. | |
| Mailing Address Information For Applicant: | | |
| Address 1 | 1927 Dock Street | |
| Address 2 | | |
| City | Tacoma | State/Province |
| Country | US | Postal Code |
| Phone Number | | Fax Number |
| Email Address | | |
| Additional Applicant Data may be generated within this form by selecting the Add button. Add | | |

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

| | | | |
|---|---|------------------------|----------------|
| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | 023027-0504053 |
| | | Application Number | |
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |

| | | | | |
|--|----------------------|----------------------|----------------------|----------------------|
| Assignee | 1 | | | |
| Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication. | | | | |
| <input type="button" value="Remove"/> | | | | |
| If the Assignee or Non-Applicant Assignee is an Organization check here. <input type="checkbox"/> | | | | |
| Prefix | Given Name | Middle Name | Family Name | Suffix |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Mailing Address Information For Assignee including Non-Applicant Assignee: | | | | |
| Address 1 | <input type="text"/> | | | |
| Address 2 | <input type="text"/> | | | |
| City | <input type="text"/> | State/Province | <input type="text"/> | |
| Country ⁱ | <input type="text"/> | Postal Code | <input type="text"/> | |
| Phone Number | <input type="text"/> | Fax Number | <input type="text"/> | |
| Email Address | <input type="text"/> | | | |
| Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. <input type="button" value="Add"/> | | | | |

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the **INITIAL** filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

| | | | | |
|--|-----------------|-----------|-------------------|---------------------|
| Signature | /Ngai B. Zhang/ | | Date (YYYY-MM-DD) | 2019-03-22 |
| First Name | Ngai | Last Name | Zhang | Registration Number |
| | | | | 65473 |
| Additional Signature may be generated within this form by selecting the Add button. <input type="button" value="Add"/> | | | | |

| | | | |
|---|---|------------------------|----------------|
| Application Data Sheet 37 CFR 1.76 | | Attorney Docket Number | 023027-0504053 |
| | | Application Number | |
| Title of Invention | ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK | | |

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
- 2 A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4 A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5 A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6 A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7 A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8 A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9 A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: TOPIA TECHNOLOGY, INC.Application No./Patent No.: New Filed/Issue Date: March 22, 2019Titled: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORKTOPIA TECHNOLOGY, INC., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:
1. From: _____ To: _____
- The document was recorded in the United States Patent and Trademark Office at
- Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
- The document was recorded in the United States Patent and Trademark Office at
- Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Box & Dropbox Exhibit 1012

Page 434

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ngai B. Zhang/

March 22, 2019

Signature

Date

Ngai B. Zhang

65,473

Printed or Typed Name

Title or Registration Number

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

00909

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

| Name | Registration Number |
|------|---------------------|
| | |
| | |
| | |
| | |
| | |
| | |

| Name | Registration Number |
|------|---------------------|
| | |
| | |
| | |
| | |
| | |
| | |

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

00909

OR

| | | | |
|--|-------|-----|--|
| <input type="checkbox"/> Firm or Individual Name | | | |
| Address | | | |
| City | State | Zip | |
| Country | | | |
| Telephone | Email | | |

Assignee Name and Address: TOPIA TECHNOLOGY, INC.
1119 Pacific Avenue, Suite 200
Tacoma, WA 98402

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

| | | | |
|-----------|-----------------------|-----------|----------|
| Signature | <i>Janine Terrano</i> | Date | 11/03/15 |
| Name | Janine Terrano | Telephone | |
| Title | President, CEO | | |

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael R. Manzano

Attorney Docket No. TPTC-1-1026

Serial No. 12/267,852

Group Art Unit: 2876

Filing Date: November 10, 2008

Examiner: Unknown.

Title: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

ASSIGNMENT

WHEREAS, I, Michael R. Manzano, residing at 819 Virginia Avenue, #1706, Seattle, WA 98101, am the inventor named in the above-identified United States patent application;

AND, WHEREAS, Topia Technology, a Washington corporation, having a principal address at 1119 Pacific Avenue, Suite 1600, Tacoma, WA 98402 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title, and interest in and to the patent application and related inventions;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound, I hereby assign and transfer to ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, including all improvements, variations, derivations and inventive subject matter directly or indirectly related to the patent application and inventions, and all provisional or nonprovisional patent applications or issued patents that have been or may be granted thereon, including without limitation all reissues, divisions, continuations, continuations-in-part, and extensions of the patent applications or patents, or any other form of protection for the inventions related to the patent application, in the United States and foreign countries; all rights of action arising from the inventions and all applications and patents on the inventions; all claims for damages by reason of past and future infringement of the inventions and all applications and

25315
CUSTOMER NUMBER

- 1 of 3 -

TPTC-1-1026ASGN

BLACK LOWE & GRAHAM ^{PLLC}

701 Fifth Avenue, Suite 4800

Seattle, Washington 98104
Box & Dropbox Exhibit 1012
206.381.3300 F: 206.381.3301

Page 437

patents on the inventions, and the right to sue and collect damages for such infringement; all of the foregoing assigned rights to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its successors and assigns as the same would have been held by me had this assignment not been made.

I do hereby further agree and promise to execute all instruments and render all such assistance as ASSIGNEE may request in order to: make and prosecute any and all applications on the inventions, maintain and enforce any and all patents on the inventions, and confirm in ASSIGNEE legal title to the inventions and all applications and patents on the inventions in the United States and foreign countries, all without charge to ASSIGNEE but at no expense to me. In the event that ASSIGNEE is unable for any reason, after reasonable effort, to secure my signature on any document needed in connection with the actions specified in this paragraph, or to otherwise perfect in ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, I hereby irrevocably designate and appoint the ASSIGNEE and its duly authorized officers and agents as my agent and attorney-in-fact, to act for and in my behalf to execute, verify and file any such documents and to do all other lawfully permitted acts to further the purposes of this assignment with the same legal force and effect as if executed by me. I hereby waive and quitclaim to the ASSIGNEE any and all claims, of any nature whatsoever, which I now or may hereafter have for infringement of any proprietary rights assigned to the ASSIGNEE.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law, and the remainder of this assignment shall remain in full force and effect.

EXECUTED at Tacoma (city), WA (state), on Jan 23, 2009

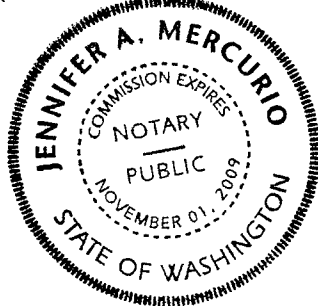
[Signature]
Michael R. Manzano

STATE OF WASHINGTON)
) ss.
COUNTY OF -)

I certify that I know or have satisfactory evidence that **Michael R. Manzano** is the person who appeared before me and signed this instrument and acknowledged such signature to be a voluntary act for the purposes mentioned in the instrument.

Dated: 1-23-09

(Seal or stamp)



[Signature]
Signature

Printed Name: Jennifer A mercurio


Notary Public

My appointment expires 11-1-09

25315
CUSTOMER NUMBER

- 3 of 3 -
TPTC-1-1026ASGN

BLACK LOWE & GRAHAM^{PLLC}


701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
Box & Dropbox Exhibit 1012
206.381.3300 • F: 206.381.3301
Page 439